

LIST OF PUBLICATIONS

• REFEREED ARTICLES

228. Sumi, T.; Bennett, D. P.; Bond, I. A.; Udalski, A.; Batista, V.; Dominik, M.; Fouque, P.; Kubas, D.; Gould, A.; Macintosh, B.; ..Sahu, K.C. et al., “A Cold Neptune-Mass Planet OGLE-2007-BLG-368Lb: Cold Neptunes Are Common”, *ApJ*, 710, 1641 (2010)
227. Zub, M.; Cassan, A.; Heyrovsky, D.; Fouque, P.; Stempels, H. C.; Albrow, M. D.; Beaulieu, J. -P.; Brilliant, S.; Christie, G. W.; Kains, N.; ..Sahu, K.C., et al. “Limb-darkening measurements for a cool red giant in microlensing event OGLE 2004-BLG-482”, submitted to *ApJ*, arXiv0912.2312 (2010)
226. Clarkson, W., Sahu, Kailash C., and 4 coauthors, “Blue Stragglers in the Galactic Bulge”, submitted to *ApJ* (2010)
225. Fouque, P.; Heyrovsky, D.; Dong, S.; Gould, A.; Udalski, A.; Albrow, M. D.; Batista, V.; Beaulieu, J. -P.; Bennett, D. P.; Bond, I. A.; and 108 coauthors including Sahu, K.C. (PLANET collaboration), “OGLE 2008–BLG–290: An accurate measurement of the limb darkening of a Galactic Bulge K Giant spatially resolved by microlensing”, submitted to *A&A*, arXiv: 1005.0966 (2010)
224. Batista, V.; Dong, S.; Gould, A.; Beaulieu, J. P.; Cassan, A.; Christie, G. W.; Han, C.; Udalski, A.; Allen, W.; Depoy, D. L.; ..Sahu, K.C., et al. “Mass measurement of a single unseen star and planetary detection efficiency for OGLE 2007-BLG-050”, *Astron. Astrophys.*, 508, 467 (2009)
223. Han, C.; Hwang, K.-H.; Kim, D.; Udalski, A.; Abe, F.; Monard, L. A. B.; ..Sahu, K.C., et al. “Interpretation of Strong Short-Term Central Perturbations in the Light Curves of Moderate-Magnification Microlensing Events”, *ApJ*, 705, 1116 (2009)
222. Albrow, M. D.; Horne, K.; Bramich, D. M.; Fouqu, P.; Miller, V. R.; Beaulieu, J.-P.; Coutures, C.; Menzies, J.; Williams, A.; Batista, V.; ..Sahu, K.C., et al. “Difference imaging photometry of blended gravitational microlensing events with a numerical kernel”, *MNRAS*.397, 2099 (2009)
221. Gould, A.; Udalski, A.; Monard, B.; Horne, K.; Dong, Subo; Miyake, N.; Sahu, K.; Bennett, D. P.; Wyrzykowski, et al. “The Extreme Microlensing Event OGLE-2007-BLG-224: Terrestrial Parallax Observation of a Thick-Disk Brown Dwarf”, *ApJ*, 698, L147 (2009)
220. Kains, N.; Cassan, A.; Horne, K.; Albrow, M. D.; Dieters, S.; Fouqué, P.; Greenhill, J.; Udalski, A.; Zub, M.; Bennett, D. P.; “A systematic fitting scheme for caustic-crossing microlensing events”, *MNRAS*, 395, 787 (2009)
219. Brown, Thomas M.; Sahu, Kailash, C., Zoccali, Manuela; Renzini, Alvio; Ferguson, Henry C.; Anderson, Jay; Smith, Ed; Bond, Howard E.; Minniti, Dante; Valenti, Jeff A.; and 5 coauthors, “The WFC3 Galactic Bulge Treasury Program: A First Look at Resolved Stellar Population Tools”, *Astron. J.*, 137, 3172 (2009)

218. Pirzkal, N.; Burgasser, A. J.; Malhotra, S.; Holwerda, B. W.; Sahu, K. C.; Rhoads, J. E.; Xu, C.; Bochanski, J. J.; Walsh, J. R.; Windhorst, R. A.; "Spectrophotometrically Identified Stars in the PEARs-N and PEARs-S Fields", *ApJ*, 695,1591 (2009)
217. Dong, Subo, Gould, Andrew, Udalski, Andrzej, Anderson, Jay, Christie, G. W., Gaudi, B. S., Jaroszynski, M., Kubiak, M., Szymanski, M. K., Pietrzynski, G., Sahu, K.C., et al. "OGLE-2005-BLG-071Lb, the Most Massive M-Dwarf Planetary Companion?", *ApJ*, 695, 970 (2009)
216. Kubas, D., Cassan, A., Dominik, M., Bennett, D. P., Wambsganss, J., Brilant, S., Beaulieu, J. P., Albrow, M. D., Batista, V., Bode, M., Sahu, K.C., et al. "Limits on additional planetary companions to OGLE 2005-BLG-390", *Astron. Astrophys.* 483, 317 (2008)
215. Will Clarkson, Kailash Sahu, Jay Anderson, T. Ed Smith, Thomas M. Brown, R. Michael Rich, Stefano Casertano, Howard E. Bond, Mario Livio, Dante Minniti, Nino Panagia, Alvio Renzini, Jeff Valenti, and Manuela Zoccali, "Stellar Proper Motions in the Galactic Bulge from Deep Hubble Space Telescope ACS WFC Photometry," *ApJ*, 684, 1110 (2008)
214. Davies, Ben, Oudmaijer, Rene, Sahu, Kailash, C., "The axi-symmetric wind of IRC +10420", *ApJ*, 671, 2059 (2007)
213. Cassan, A., Beaulieu, J.-P., Fouque, P., Brilant, S., Dominik, M., Greenhill, J., Heyrovsk, D., Horne, K., Jorgensen, U. G., Kubas, D., Sahu, K.C.. and 29 coauthors, "OGLE 2004-BLG-254: a K3 III Galactic bulge giant spatially resolved by a single microlens", *Astron. Astrophys.* 460, 277 (2006)
212. **Sahu, Kailash C.**, Casertano, Stefano, Bond, Howard E., Valenti, Jeff, Ed Smith, T., Minniti, Dante, Zoccali, Manuela, Livio, Mario, Panagia, Nino, Piskunov, Nikolai, Brown, Thomas M., Brown, Timothy, Renzini, Alvio, Rich, R. Michael, Clarkson, Will, Lubow, Stephen, "Transiting Extrasolar Planetary Candidates in the Galactic Bulge," *Nature*. 443, 1038 (2006).
211. D. Kubas, A. Cassan, M. Dominik, D. P. Bennett, J.P. Beaulieu, S. Brilant, J. Wambsganss, M.D. Albrow, V. Batista, D.M. Bramich, J.A.R. Caldwell, H. Calitz, K. Cook, Ch. Coutures, S. Dieters, D. Dominis, J. Donatowicz, P. Fouque, J. Greenhill, K. Hill, M. Hoffman, K. Horne, U.G. Jrgensen, N. Kains, S. Kane, J.B. Marquette, R. Martin, P. Meintjes, J. Menzies, K.R. Pollard, K.C. Sahu, C. Vinter, A. Williams, K. Woller and M. Zub, "Limits on further planetary companions to OGLE 2005BLG390Lb", submitted for publication to *A& A* (2006).
210. Fruchter, A. S., Levan, A. J., Strolger, L., Vreeswijk, P. M., Thorsett, S. E., Bersier, D., Burud, I., Castro Ceron, J. M., Castro-Tirado, A. J., Conelice, C., and 23 coauthors, "Long gamma-ray bursts and core-collapse supernovae have different environments," *Nature*, 441, 463 (2006).
209. Beaulieu, J.-P., Bennett, D. P., Fouque, P., Williams, A., Dominik, M., Jorgensen, U. G., Kubas, D., Cassan, A., Coutures, C., Greenhill, J., **Sahu, K.C.** and 62 coauthors, "Discovery of a cool planet of 5.5 Earth masses through gravitational microlensing," *Nature*, 439, 437 (2006)

208. Cassan, A., et al., "OGLE 2004-BLG-254: a K3 III galactic bulge giant spatially resolved by a single microlens," accepted for publication in *Astron. Astrophys.* (2006)
207. Kane, S. & **Sahu, K.C.**, "Studying the Galactic Bulge Through Spectroscopy of Microlensed Sources: I. Theoretical Considerations," *ApJ*, 637, 752 (2006)
206. Fynbo, J. P. U., Gorosabel, J., Smette, A., Fruchter, A., Hjorth, J., Pedersen, K., Levan, A., Burud, I., **Sahu, K.**, Vreeswijk, P. M., and 17 coauthors, "On the Afterglow and Host Galaxy of GRB 021004: A Comprehensive Study with the Hubble Space Telescope," *ApJ*, 633, 317 (2005)
205. Kubas, D., Cassan, A., Beaulieu, J. P., Coutures, C., Dominik, M., Albrow, M. D., Brilliant, S., Caldwell, J., Dominis, D., Donatowicz, J., **Sahu, K.C.** and 17 coauthors, "Full characterization of binary-lens event OGLE-2002-BLG-069 from PLANET observations," *Astron. Astrophys.* 435, 941 (2005)
204. Pirzkal, N., **Sahu, K. C.**, et al., Stars in the Hubble Ultra Deep Field, *ApJ*, 622, 319, 2005
203. Jiang, G., et al., OGLE-2003-BLG-238: Microlensing Mass Estimate of an Isolated Star, *ApJ*, 617, 1307, 2004
202. Ghosh, H., et al., Potential Direct Single-Star Mass Measurement, *ApJ*, 615, 450, 2004
201. Proffitt, Charles R., **Sahu, Kailash**, et al., Limits on the Optical Brightness of the ϵ Eridani Dust Ring, *ApJ*, 612, 481, 2004
200. Christensen, L., Hjorth, J., Gorosabel, J., Vreeswijk, P., Fruchter, A., **Sahu, K.C.**, Petro, L., "The host galaxy of GRB 990712", *A& A*, 413, 121, 2004
199. Cassan, A., Beaulieu, J.P., Brilliant, S., Coutures, C., Dominik, M., Donatowicz, J., Jorgensen, U.G., Kubas, D., Albrow, M.D., Caldwell, J.A.R., Fouque, P., Greenhill, J., Hill, K., Horne, K., Kane, S., Martin, R., Menzies, J., Pollard, K., **Sahu, K.C.**, Vinter, C., Wambsganss, J., Watson, R., Williams, A., Fendt, C., Hauschildt, P., Heinmueller, J., Marquette, J., Thurl, C., Probing the atmosphere of the bulge G5III star OGLE-2002-BUL-069 by analysis of microlense H α line, submitted to *A & A*, 419, L1 2004
198. **Sahu, Kailash C.**, Gilliland, Ronald L., "Near-Field Microlensing and Its Effects on Stellar Transit Observations by *Kepler*", *ApJ*, 584, 1042, 2003
197. Kane, S. & **Sahu, K.C.**, Studying the Galactic Bulge Through Spectroscopy of Microlensed Sources: II. Observations, *ApJ*, 582, 743, 2003
196. Fields, D.L. et al. "High-Precision Limb-Darkening Measurement of a K3 Giant Using Microlensing", *ApJ*, 596, 1305, 2003
195. **Sahu, Kailash C.**, Anderson, Jay, King, Ivan R., "A Re-examination of the 'Planetary' Lensing Events in M22", *ApJ*, 565, L21, 2002
194. Bakos, G., **Sahu, K.C.**, Nemeth, P., "Revised Coordinates and Proper Motions of the Stars in the Luyten Half-Second Catalog", *ApJ Suppl. Ser.*, 141, 187, 2002

193. Albrow, M., De Marchi, G., **Sahu, K.C.**, “The Spatially-Resolved Mass Function of the Globular Cluster M22”, *ApJ*, 579, 660, 2002
192. Albrow, M. et al (i.e. PLANET Collaboration, of which K.C. Sahu is a co-founder, in alphabetical order¹), “A Short, Nonplanetary, Microlensing Anomaly: Observations and Light-Curve Analysis of MACHO 99-BLG-47”, *ApJ*, 572, 1031, 2002
191. Dominik, M. et al. “The PLANET microlensing follow-up network: results and prospects for the detection of extra-solar planets” *Planetary and Space Sciences*, 50, 299, 2002
190. An, J.H. et al. “First microlens mass measurement: PLANET photometry of EROS BLG-2000-5”, *ApJ*, 572, 521, 2002
189. Gaudi, B.S. et al. “Microlensing Constraints on the Frequency of Jupiter-Mass Companions: Analysis of Five Years of PLANET Photometry”, *ApJ*, 566, 463, 2002
188. Tej, A., **Sahu, Kailash C.**, Chandrasekhar, T., Ashok, N.M., “Substellar Mass Function of Young Open Clusters as Determined through a Statistical Approach Using 2MASS and GSC Data”, *ApJ*, 578, 523, 2002
187. **Sahu, Kailash C.**, Casertano, Stefano, Livio, Mario, Gilliland, Ronald L., Panagia, Nino, Albrow, Michael D., Potter, Mike, “Gravitational Microlensing by Low Mass Objects in the Globular Cluster M22”, *Nature*, 411, 1022, 2001
186. Reid, I. Neill, **Sahu, Kailash C.**, Hawley, Suzanne L., High-velocity white dwarfs: thick disk, not dark matter, *ApJ*, 559, 942, 2001.
185. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order), “Limits on the Abundance of Galactic Planets From Five Years of Planet Observations”, *ApJ*, 556, L113, 2001.
184. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order), $H\alpha$ Equivalent Width Variations across the Face of a Microlensed K Giant in the Galactic Bulge, *ApJ*, 550, L173, 2001.
183. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order), PLANET Observations of Microlensing Event OGLE-1999-BUL-23: Limb-darkening Measurement of the Source Star, *ApJ*, 549, 759, 2001.
182. A. Smette, A.S. Fruchter, T.R. Gull, **K.C. Sahu**, L. Petro, H. Ferguson, J. Rhoads, D.L. Lindler, R. Gibbons, D.W. Hogg, C. Kouveliotou, M. Livio, D. Macchetto, M.R. Metzger, H. Pedersen, E. Pian, S.E. Thorsett, R. Wijers, J.P.U. Fynbo, J. Gorosabel, J. Hjorth, B.L. Jensen, A. Levine, D.A. Smith, T. Cline, K. Hurley, J. Trombka, HST/STIS observations of GRB000301C: CCD imaging and NUV MAMA spectroscopy, *ApJ*, 556, 70, 2001.

¹K.C. Sahu is a co-founder of the PLANET collaboration. As per our initial agreement, meant to ensure the success of the project, all the refereed articles from the PLANET collaboration until 2001 have the author list in alphabetical order.

181. **Sahu, K.C.**, Vreeswijk, P., Bakos, G., Menzies, J.W., Bragaglia, A., Frontera, F., Piro, E., Albrow, M., D., Beaulieu, J-P., Bower, R., Caldwell, J.A.R., Courbin, F., Dominik, M., Galama, T., Glazebrook, K., Greenhill, J., Hill, K., Hjorth, J., Kane, S., Kouveliotou, C., Martin, R., Masetti, N., Maxted, P., Minniti, D., Møller, P., Palazzi, E., van Paradijs, J., Pian, E., Pollard, K.R., Rol, E., Sackett, P.D., Tinney, C., Vermaak, P., Watson, R., Williams, A., Dar, A., “Discovery of the optical counterpart and early optical observations of GRB 990712”, *ApJ*, 540, 74, 2000.
180. Dominik, M., **Sahu, K.C.**, “Astrometric microlensing of stars”, *ApJ*, 534, 213, 2000
179. Gardner, J.P., Baum, S. A., Brown, T.M., Carollo, C. M., Christensen, J., Dashevsky, I., Dickinson, M.E., Espey, B. R., Ferguson, H. C., Fruchter, A.S., Gonnella, A.M., Gonzalez-Lopezlira, R., Hook, R.N., Kaiser, M. E., Martin, C.L., **Sahu, K. C.**, Savaglio, S., Smith, T.E., Teplitz, H.I., Williams, R. E., Wilson, J., “The Hubble Deep Field South – STIS Imaging”, *Astron. J.*, 119, 486, 2000
178. Williams, Robert E., Baum, Stefi, Bergeron, Louis E., Bernstein, Nicholas, Blacker, Brett S., Boyle, Brian J., Brown, Thomas M., Carollo, C. Marcella, Casertano, Stefano, Covarrubias, Riccardo, de Mello, Dumlia F., Dickinson, Mark E., Espey, Brian R., Ferguson, Henry C., Fruchter, Andrew, Gardner, Jonathan P., Gonnella, Anne, Hayes, Jeffrey, Hewett, Paul C., Heyer, Inger, Hook, Richard, Irwin, Mike, Jones, Daniel, Kaiser, Mary Elizabeth, Levay, Zolt, Lubenow, Andy, Lucas, Ray A., Mack, Jennifer, MacKenty, John W., Madau, Piero, Makidon, Russell B., Martin, Crystal L., Mazzuca, Lisa, Mutchler, Max, Norris, Ray P., Perriello, Beth, Phillips, M. M., Postman, Marc, Royle, Patricia, **Sahu, Kailash C.**, Savaglio, Sandra, Sherwin, Alison, Smith, T. Ed, Stiavelli, Massimo, Suntzeff, Nicholas B., Teplitz, Harry I., van der Marel, Roeland P., Walker, Alistair R., Weymann, Ray J., Wiggs, Michael S., Williger, Gerard M., Wilson, Jennifer, Zacharias, Norbert, Zurek, David R., ”The Hubble Deep Field South: Formulation of the Observing Campaign”, *Astron. J.*, 120, 2735, 2000
177. Fruchter, A., Pian, Gibbons, R., E., Thorsett, S.E., Ferguson, H., Petro, L., **Sahu, K.C.**, Livio, M., Caraveo, P., Frontera, F., Pian, E., Hogg, D.W., Galama, T., Gull, T., Kouveliotou, C., Macchetto, D., Pallazi, E., Pederson, H., Tavani, M., van Paradijs J., “HST Observations of the Host Galaxy of GRB970508 ”, *ApJ*, 545, 664, 2000
176. Afonso, C., et al., Alcock, C., et al., Rhie, S.H. et al., Udalski, A. et al., Albrow, M., et al., (EROS, MACHO/GMAN, MPS, OGLE and PLANET collaborations, 94 authors), ”Combined analysis of the binary lens caustic crossing event MACHO 98-SMC-1”, *ApJ*, 532, 340, 2000.
175. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order¹), Bond, H.E., van Bemmell, I., “Detection of rotation in a binary microlens: PLANET photometry of MACHO 97-BLG-41”, *ApJ*, 534, 894, 2000.
174. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order¹), ”Limits on Stellar and Planetary Companions in Microlensing Event OGLE-1998-BUL-14”, *ApJ*, 535, 176, 2000

173. Savaglio, S., Ferguson, H. C., Brown, T. M., Espey, B. R., **Sahu, K. C.**, Baum, S. A., Carollo, C. M., Kaiser, M. E., Stiavelli, M., Williams, R. E., Wilson, J., “The Ly α Forest of the Quasar in the Hubble Deep Field South”, ApJ, 515, L5, 1999.
172. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order) ”A Complete Set of Solutions For Caustic-Crossing Binary Microlensing Events”, ApJ, 522, 1022, 1999.
171. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order¹), “The Relative Lens-Source Proper Motion in MACHO 98-SMC-1”, ApJ, 512, 672, 1999.
170. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order¹), “Limb-Darkening of a K Giant in the Galactic Bulge: PLANET Photometry of MACHO 97-BLG-28”, ApJ, 522, 1011, 1999.
169. Fruchter, A., Pian, E., Thorsett, S.E., Bergeron, L.E., Gonzalez, R.A., Metzger, M., Goudfrooij, P., **Sahu, K.C.**, Ferguson, H., Livio, M., Mutchler, M., Petro, L., Frontera, F., Galama, T., Groot, P., Hook, R., Kouveliotou, C., Macchetto, D., van Paradijs J., Palazzi, E., Pederson, H., Sparks, W., Tavani, M., “The fading optical counterpart of GRB 970228, six months and one year later”, ApJ, 516, 683, 1999.
168. Fruchter, A., Pian, E., Thorsett, S.E., Metzger, M., **Sahu, K.C.**, Petro, L., Livio, M., Ferguson, H., Pian, E., Hogg, D.W., Galama, T., Gull, T., Kouveliotou, C., Macchetto, D., van Paradijs J., Pederson, H., Smette, A., “Hubble Space Telescope and Palomar Imaging of GRB 990123: Implications for the Nature of Gamma-Ray Bursts and Their Host”, ApJ, 519, L13, 1999.
167. Albrow, M. et al (i.e. PLANET Collaboration in alphabetical , of which **K.C. Sahu** is a co-founder, in alphabetical order¹), “Caustic-Crossing Binary Microlensing Events”, Submitted to ApJ, (astro-ph/9903008), 1999.
166. **Sahu, K.C.**, Sahu, M., “Spectroscopy of MACHO 97-SMC-1: self-lensing within the Small Magellanic Cloud”, ApJ, 508, L147, 1998.
165. **Sahu, K.C.**, Shaw, R.A., Kaiser, M.E., Baum, S.A., Ferguson, H.C., Hayes, J.E., Gull, T.R., Hill, R.J., Hutchings, J.B., Kimble, R.A., Plait, P., & Woodgate, B.E., “Imaging and spectroscopy of arcs around the most luminous X-ray cluster RXJ 1347.5-1145”, ApJ, 492, L125, 1998.
164. Albrow, M. et al (i.e. PLANET Collaboration in alphabetical , of which **K.C. Sahu** is a co-founder, in alphabetical order¹), “The 1995 Pilot Microlensing Campaign of PLANET: Searching for Anomalies through Precise, Rapid, Round-the-Clock Monitoring”, ApJ, 509, 687, 1998.
163. Gull, T., Lindler, D., Greenshaw, D.M., Dolan, J.F., Hulbert, S.J., Kraemer, S.B., Lundquist, P., **Sahu, K.C.**, Sollerman J.S., Sonneborn, G., Woodgate, B.E., “STIS Near UV Time-Tagged Spectra of the Crab Pulsar”, ApJL, 495, L51, 1998.

162. Bobrowsky, M., **Sahu, K.C.**, Parthasarathy, M., Garcia-Lario, P.G., “Birth and Rapid Evolution of the Stingray Nebula”, *Nature*, 392, 469, 1998.
161. Scharf, C.A., **Sahu, K.C.**, “Lensing and the luminosity of Gamma-Ray bursts and their hosts”, submitted for publication, (astro-ph/9809008), 1998.
160. **Sahu, K.C.**, Livio, M., Petro, L., Macchetto, F.D., van Paradijs, J., Kouveliotou, C., Fishman, G.J., Meegan, C., Groot, P., & Galama, T. “The optical counterpart to gamma-ray burst GRB970228 observed using the Hubble Space Telescope”, *Nature*, 387, 476, 1997.
159. **Sahu, K.C.**, Livio, M., Petro, L., Bond, H.E., Macchetto, F.D., Galama, T., Groot, P., van Paradijs, J., & Kouveliotou, C., “Observations of GRB 970228 and GRB 970508 and the Neutron Star Model”, *ApJ*, 489, L127, 1997.
158. Galama, T., Groot, P. J., van Paradijs, J., Kouveliotou, C., Robinson, C. R., Fishman, G. J., Meegan, C. A., **Sahu, K.C.**, Livio, M., Petro, L., Macchetto, F. D., Heise, J., in’t Zand, J., Strom, R. G., Telting, J., Rutten, R. G. M., Pettini, M., Tanvir, N., & Bloom, J., “The decay of optical emission from the gamma-ray burst GRB970228”, *Nature*, 387, 479, 1997.
157. G. Van de Steene, **Sahu, K.C.**, and Pottasch, S.R., “Optical observations of southern planetary nebula candidates”, *Astron. Astrophys. Supp. Ser.* 120, 111, 1996.
156. Oudmaijer, R., **Sahu, K.C.** et al., “The spectral energy distribution and mass-loss history of IRC+10420”, *MNRAS.*, 280, 1062, 1996.
155. Kidger, M.K., **Sahu, K.C.** et al., “A large optical and infrared outburst in OJ 287”, *Astron. Astrophys. Supp. Ser.*, 133, 431, 1995.
154. Parthasarathy, M., **Sahu, K.C.** et al., “Fading and variations in the spectrum of the central star of the very young planetary nebula SAO 244567 (Hen 1357)”, *Astron. Astrophys.*, 300, L25, 1995.
153. **Sahu, K.C.**, “Stars within the LMC as potential lenses for observed microlensing events”, *Nature*, 370, 275, 1994.
152. **Sahu, K.C.**, “Microlensing events of the LMC are better explained by stars within the LMC than by MACHOs”, *Pub. Astron. Soc. Pacific*, 106, 942, 1994.
151. Oudmaijer, R., **Sahu, K.C.** et al., “Discovery of near-infrared hydrogen line emission in the peculiar F8 hypergiant IRC +10420”, *Astron. Astrophys.* 281, L330, 1994.
150. Sahu, M.S., and **Sahu, K.C.**, “Kinematics of the ionized gas in Puppis-Vela including the Gum Nebula”, *Astron. Astrophys.* 280, 231, 1993.
149. Garcia-Lario, P., Manchado, A., **Sahu, K.C.** and Pottasch, S.R., “IRAS 06562-0337: the final mass-loss episodes before the formation of a planetary nebula ?”, *Astron. Astrophys.* 267, L11, 1993.
148. Parthasarathy, M., Pottasch, S.R. **Sahu, K.C.** et al., “SAO 244567: a post-AGB star which has turned into a planetary nebula within the last 40 years”, *Astron. Astrophys.*, 267, L19, 1993.

147. Sahu, M.S., and **Sahu, K.C.**, “Cometary globules in the Gum nebula II. Low mass star-formation in CG22”, *Astron. Astrophys.*259, 265, 1992.
146. Baade, D., Cristiani, S., Lanz, T., Malaney, R., **Sahu, K.C.**, Vladilo, G., “Reduced upper limits on the equivalent width of interstellar Li I 670.8 towards SN1987A”, *Astron. Astrophys.* 251, 253, 1991.
145. Harju, J., Sahu, M.S., Henkel, C., Wilson, T., **Sahu, K.C.** and Pottasch, S.R., “CO in cometary globules I. CO in CG1”, *Astron. Astrophys.* 233, 197, 1990.
144. Manchado, A., Garcia, P., **Sahu, K.C.** and Pottasch, S.R., “Three young objects from the IRAS Point Source Catalog” *Astron. Astrophys. Supp.* 84, 517, 1990.
143. Walton, N.A., Walsh, J.R., and **Sahu, K.C.**, “The kinematic structure of NGC 7139”, *Astron. Astrophys.* **230**, 445, 1990.
142. Sahu, M.S., **Sahu, K.C.** and S.R.Pottasch, “IRAS observations of the star-forming dark cloud ESO210-6A and the associated near-IR source HH46/47”, *Astron. Astrophys.* **218**, 221, 1989.
141. **Sahu, K.C.**, Sahu. M.S., and S.R.Pottasch, “Search for primordial lithium in the interstellar medium towards SN 1987A”, *Astron. Astrophys.* 207, L1, 1988.
140. Sahu, M.S., Pottasch, S.R., **Sahu, K.C.** and J.N. Desai, “Cometary globules in the Gum nebula 1. Infrared and optical properties of CG 22”, *Astron. Astrophys.* 195, 269, 1988.
139. Danziger, I.J., Fosbury, R.A.E., Alloin, D., Cristiani, S., Dachs, J.,Gouiffes, C., Jarvis, B., and **Sahu, K.C.**, “Optical spectroscopy of SN 1987A”, *Astron. Astrophys.* 177, L13, 1987.
138. **Sahu, K.C.** and Desai, J.N., “Kinematic structure of NGC 3132 : the planetary nebula with a binary nucleus”, *Astron. Astrophys.* 161, 357, 1986.
137. **Sahu, K.C.**, Gupta, R., Desai, J.N., and Srinivasan, M., “Detection of nebulosity around stars using a Fabry-Pérot spectrometer: a new technique”, *Appl. Opt.*, 24, 10, 1985.
136. Anandarao, B.G., **Sahu, K.C.** and Desai, J.N., “High resolution observations of H α emission line from R Aquarii”, *Astrophys. Sp. Sci.*, 114, 351, 1985.
135. Chandrasekhar, T., **Sahu, K.C.** and Desai, J.N., “High altitude atmospheric water vapour measurements in the Himalayan region”, *Infrared Phys.*, 23, 119, 1983.

• **Books Edited**

134. Mario Livio, Kailash Sahu and Jeff Valenti, ”A Decade of Planets around Normal Stars”, *Proceedings of the Space Telescope Science Institute Symposium Series, No. 19*, held in Baltimore, May 2-5, 2005, Cambridge Univ. Press (2008)
133. Mario Livio, Nino Panagia and Kailash Sahu, ”Supernovae and Gamma ray Bursts”, *Proceedings of the Space Telescope Science Institute Symposium Series, No. 13*, held in Baltimore, May 3-6, 1999, Cambridge Univ. Press (2001)

• INVITED REVIEWS

132. **Sahu, Kailash C.**, Search for extra-solar planets through gravitational microlensing, in: Astrophysics of life. Proceedings of the Space Telescope Science Institute Symposium, held in Baltimore, MD, USA, May 6-9, 2002, edited by Mario Livio, I. Neill Reid, William B. Sparks. Space Telescope Science Institute symposium series, Vol. 16. Cambridge, p76-88, 2005
131. **Sahu, K.C.**, "Microlensing in the Local Group: the First Decade", STScI May Symposium on "The Local Group", 2003
130. **Sahu, K.C.**, "Microlensing towards the Magellanic Clouds: Nature of the Lenses and Implications for Dark Matter", to appear in the Proceedings of STScI April Symposium on "The Dark Universe: Matter, Energy and Gravitation" (astro-ph/0302325), 2003
129. **Sahu, K.C.**, "Search for extra-solar planets through monitoring microlensing events from Antarctica", Proc. of the ASP Conf. on "Astrophysics from Antarctica", Ed. G. Novak and R.H. Landsberg, p179, 1998.
128. **Sahu, K.C.**, "Detecting Planets Through Microlensing", Proc. of the ASP Conf. 119 on "Planets beyond the solar system and the next generation of space missions", Ed. D. Soderblom, p. 73, 1997.
127. Waters, L.B.F.M. and **Sahu, K.C.**, "Post-AGB Candidates", Invited Review Article, Proc. IAU Symp. 155 on *Planetary Nebulae*, p271, 1993.
126. Srinivasan, M., Pottasch, S.R., **Sahu, K.C.** and Pecker, J.-C., "Internal dynamics of the Gum nebula", The Messenger, no. 50, p11, 1987.

• CONFERENCE PROCEEDINGS, etc.

125. Clarkson, Will; Sahu, K.; Howard, C.; Rich, R. M.; Anderson, J.; Smith, E.; Bond, H. E.; Brown, T.; Casertano, S.; Livio, M.; and 5 coauthors, "HST Stellar Proper Motions and the Components of the Milky Way Bulge," BAAS, 213, 606.02 (2009)
124. Sahu, Kailash C.; SWEEPS Team, "Limits on Substellar and Planetary-Mass Objects through Microlensing from Sweeps Data", BAAS, 213, 601.05 (2009)
123. Sahu, Kailash C., Casertano, Stefano, Valenti, Jeff, Bond, Howard E., Brown, Thomas M., Smith, T. Ed, Clarkson, Will, Minniti, Dante, Zoccali, Manuela, Livio, Mario, Renzini, Alvio, Rich, R. M., Panagia, Nino, Lubow, Stephen, Brown, Timothy, Piskunov, Nikolai, "Planets in the Galactic Bulge: Results from the SWEEPS Project", To appear in "Extreme Solar Systems," eds. D. Fischer, F. Rasio, S. Thorsett, A. Wolszczan, ASP Conf. Series, arXiv:0711.4059 (2008)
122. Sahu, Kailash C., "Worlds in transit", Sahu, K. C., Bulletin of the Astronomical Society of India, 25, 28 (2008)
121. Will Clarkson, Kailash Sahu, Jay Anderson, T. Ed Smith, Thomas M. Brown, Stefano Casertano, R Michael Rich, Howard E. Bond, Mario Livio, Dante Minniti, Nino Panagia, Alvio

- Renzini, Jeff Valenti, Manuela Zoccali, “Kinematics of the SWEEPS transiting planet candidates,” Proc. IAU Symposium on “Transiting Planets” held at Boston, May 19-23, 2008, Ed. Pont et al. (2008)
120. Sahu, Kailash C., Casertano, Stefano, Valenti, Jeff, Bond, Howard E., Brown, Thomas M., Smith, T. Ed, Clarkson, Will, Minniti, Dante, Zoccali, Manuela, Livio, Mario, Renzini, Alvio, Rich, R. M., Panagia, Nino, Lubow, Stephen, Brown, Timothy, Piskunov, Nikolai, “Transiting Planets in the Galactic Bulge from SWEEPS Survey and Implications,” Proc. IAU Symposium on “Transiting Planets” held at Boston, May 19-23, 2008, Ed. Pont et al. (2008)
 119. Di Nino, Daiana, Makidon, R. B., Lallo, M., Sahu, K., Sirianni, M., Casertano, S. ”HST Focus Variations with Temperatures”, American Astronomical Society Meeting Abstracts, 211, #135.13 (2007)
 118. Clarkson, Will, Sahu, Kailash, Anderson, Jay, Smith, T. Ed, Brown, Thomas M., Casertano, Stefano, Rich, R. Michael, Bond, Howard E., Brown, Timothy, Livio, Mario, et al., ”Stellar proper motions in the Galactic bulge with ACS/WFC on HST”, Formation and Evolution of Galaxy Bulges, Proceedings of IAU Symposium, Volume 245, p. 361 (2008)
 117. Clarkson, Will; Sahu, K.; Anderson, J.; Smith, E.; Brown, T. R.; Casertano, S.; Rich, R.; Bond, H. E.; Livio, M.; Minniti, D.; and 4 coauthors, ”New Stellar Proper Motions in the Galactic Bulge with HST,” American Astronomical Society Meeting Abstracts, 211, #33.06 (2007)
 116. Beaulieu, Jean-Philippe; Albrow, Michael; Bennett, Dave; Brilang, Stphane; Caldwell, John A. R.; Calitz, Johannes J.; Cassan, Arnaud; Cook, Kem H.; Coutures, Christian; Dieters, Stefan; Dominik, Martin; Dominis-Prester, Dijana; Donatowicz, Jadzia; Fouqu, Pascal; Greenhill, John; Hill, Kym; Hoffman, Matie; Jrgensen, Uffe G.; Kane, Stephen; Kubas, Daniel; Marquette, Jean-Baptiste; Martin, Ralph; Meintjes, Pieter; Menzies, John; Pollard, Karen; Sahu, Kailash; Vinter, Christian; Wambsganss, Joachim; Williams, Andrew; Woller, Kristian; Zub, Marta; Horne, Keith; Allan, Alasdair; Bode, Mike; Bramich, Daniel M.; Burgdorf, Martin; Fraser, Stephen; Mottram, Chris; Rattenbury, Nicholas; Snodgrass, Colin; Steele, Iain; Tsapras, Yiannis, “Hunting for Frozen Super-Earths via Microlensing,” The Messenger, 128, 33 (2007)
 115. Sahu, Kailash C. “Transiting Hot Jupiters near the Galactic Center”. Article in Hubblebook, (2006).
 114. Bennett, D. P., Anderson, J., Beaulieu, J. -P., Bond, I., Cheng, E., Cook, K., Friedman, S., Gaudi, B. S., Gould, A., Jenkins, J., and 7 coauthors ”An Extrasolar Planet Census with a Space-based Microlensing Survey”, White Paper Submitted to the NASA/NSF ExoPlanet Task Force, astro-ph/0704.0454 (2007)
 113. Clarkson, Will, Sahu, K., Smith, E., Casertano, S., ”Deep Astrometry of the Galactic Bulge with the HST ACS-WFC”, BAAS, Vol. 38, p.1149 (2006)
 112. Sahu, Kailash C., Smith, T. E., Clarkson, W., ”Eclipsing Binaries in the Galactic Bulge from SWEEPS Data”, BAAS, Vol. 38, p.1128 (2006)

111. Bennett, David P., Cheng, E., Kimble, R., Mather, J., Brown, M., Gould, A., Anderson, J., Beaulieu, J., Bond, I., Cook, K., and 14 coauthors, The Microlensing Planet Finder: "A Census Of Planetary Systems Like Our Own and Objects Beyond the Kuiper Belt", American Astronomical Society, DPS meeting 38, Bulletin of the American Astronomical Society, Vol. 38, p.570 (2006)
110. Ford, Holland; Petro, L.; Hebb, L.; Ardila, D.; Minniti, D.; Toledo, I.; Clampin, M.; Krist, J.; Sahu, K., "A Search for Planets Transiting the M1Ve Star AU Mic: II," BAAS, 208, 2602 (2006)
109. Hebb, Leslie; Petro, L.; Ford, H.; Ardila, D.; Toledo, I. D.; Toledo, I.; Clampin, M.; Krist, J.; Sahu, K., "A Search for Planets Transiting the M1Ve Star AU Mic: I," BAAS, 208, 2601 (2006).
108. Sahu, Kailash C., "Search for extra-solar planets through gravitational microlensing," Astrophysics of life. Proceedings of the STScI Symposium Series, Vol. 16. Cambridge University Press, ed. Mario Livio, I. Neill Reid, William B. Sparks. p. 76-88 (2005)
107. Beaulieu, J. P., et al. PLANET III: searching for Earth-mass planets via microlensing from Dome C?, Dome C Astronomy and Astrophysics Meeting, EAS Publication Ser., 14, 297B, 2005
106. Ford, H.; Bianchi, L.; Heckman, T.; Moos, W.; Norman, C.; Baum, S.; Giavalisco, M.; Nota, A.; Riess, A.; Sahu, K.; et al. The Hubble Origins Probe (HOP): Mission Overview, BAAS, 205, 10001, 2005.
105. Pirzkal, N.; Sahu, K. C.; Burgasser, A. J.; Xu, C.; Malhotra, S.; Rhoads, J. E.; (GRAPES) Stars in the Hubble Ultra Deep Field, BAAS, 205, 2101, 2005.
104. Bennett, D. P., et al., Completing the Census of Extrasolar Planets in the Milky Way with the Microlensing Planet Finder, BAAS, 205, 1126, 2005.
103. Martin Dominik, M.D. Albrow, J.-P. Beaulieu, J.A.R. Caldwell, A. Cassan, C. Coutures, J. Greenhill, K. Hill, P. Fouque, K. Horne, U.G. Jorgensen, S. Kane, D. Kubas, R. Martin, J. Menzies, K.R. Pollard, K. Sahu, J. Wambsganss, R. Watson, A. Williams, "The PLANET microlensing campaign: implications for planets around galactic disk and bulge stars", Extrasolar Planets: Today and Tomorrow, ASP Conference Proceedings, Vol. 321, p.121-121 (astro-ph/0309609), 2004
102. Sosey, M.; Rich, R. M.; Sahu, K.; Gilliland, R.; Bond, H. E.; Casertano, S.; Livio, M.; Minniti, D.; Panagia, N.; Renzini, A.; Zoccali, M., The HST/NICMOS Galactic Bulge Deep Field: A Deep Infrared Luminosity Function to H=26, BAAS, 205, 17603, 2004.
101. Sosey, M.; Rich, R. M.; Sahu, K.; Gilliland, R.; Bond, H.; Brown, T.; Casertano, S.; Livio, M.; Minniti, D.; Panagia, N., The HST/NICMOS Galactic Bulge Deep Field: A Deep Infrared Luminosity Function, BAAS, 205, 14207, 2004.
100. Norman, C.; Bianchi, L.; Ford, H.; Heckman, T.; Moos, W.; Giavalisco, M.; Nota, A.; Riess, A.; Sahu, K.; Somerville, R.; et al. Hubble Origins Probe(HOP): Science Overview, BAAS, 205, 10002, 2004.

99. Bennett, D. P., et al., The Microlensing Planet Finder: Completing the Census of Extrasolar Planets in the Milky Way, DPS Proceedings, 36, 3509, 2004.
98. O'Brien, M. S., Hughes, A. M., Sahu, K. C., "Are the MACHO Microlenses in Front of the Megallanic Clouds or Inside Them?", BAAS, 20312004O, 2003
97. Bennett, D. P., Bally, J., Bond, I., Cheng, E., Cook, K., Deming, D., Garnavich, P., Griest, K., Jewitt, D., Lauer, T. **K.C. Sahu**, et al., "The Galactic Exoplanet Survey Telescope (GEST) Proposed Discovery Mission", BAAS, 20313603B, 2003
96. Albrow, M. D., de Marchi, G., Sahu, K. C., "Mass Segregation in M22", in *New Horizons in Globular Cluster Astronomy*, ASP Conference Proceedings, Vol. 296, Ed. Giampaolo Piotto, Georges Meylan, S. George Djorgovski and Marco Riello, p.195, 2003
95. Penny D. Sackett, M.D. Albrow, J.-P. Beaulieu, J.A.R. Caldwell, C. Coutures, M. Dominik, J. Greenhill, K. Hill, K. Horne, U.-G. Jorgensen, S. Kane, D. Kubas, R. Martin, J.W. Menzies, K.R. Pollard, **K.C. Sahu**, J. Wambsganss, R. Watson, A. Williams (The PLANET Collaboration), PLANET II: A Microlensing and Transit Search for Extrasolar Planets, Bioastronomy 2002: Life Among the Stars, IAU Symposium 213, eds. R. Norris, C. Oliver and F. Stootman, ASP, (astro-ph/0211098), 2002.
94. Tej, A., **Sahu, Kailash C.**, Chandrasekhar, T., Ashok, N.M., "Determination of Substellar Mass Function of Young Open Clusters Using 2MASS and GSC Data", To appear in the Proceedings of IAU Symp. 121 on "Brown Dwarfs", Ed. E. Martin, 2002 (astro-ph/0208337).
93. **Sahu, K.C.**, "Gravity's Lens", STScI Newsletter, Jan 2002 issue, 2002
92. Stys, D. J., Walborn, N. R., Busko, I., Goudfrooij, P., Proffitt, C., Sahu, K., "Sensitivity Monitor Report for the STIS First-Order Modes", BAAS, 200.6211, 2002
91. Sahu, K., Fruchter, A., Burud, I., Sembach, K., "GRB 021004: HST/STIS spectroscopic observations", GCN, 1608, 2002.
90. Livio, M., Panagia, N., **Sahu, K.C.**, Editors, Proceedings of the STScI Symposium on "The Biggest Explosions in the Universe", Cambridge Univ. Press, 2001.
89. Beckwith, S., Riess, A., Boffi, F., Casertano, S., Doxsey, R., Ferguson, H., Fruchter, A., Giavalisco, M., Gilliland, R., Griffin, I., Koekemoer, A., Livio, M., Margon, B., Meylan, G., Panagia, N., Platais, V., Sahu, K., Soderblom, D., "Supernova 1998ff in Anonymous Galaxy", IAUC 7740, 2001.
88. Menzies, J., Albrow, M. D., Beaulieu, J.-P., Caldwell, J. A. R., Depoy, D. L., Gaudi, B. S., Gould, A., Greenhill, J., Hill, K., Kane, S., Martin, R., Menzies, J., Pogge, R. W., Pollard, K., Sackett, P. D., Sahu, K. C., Vermaak, P., Watson, R., Williams, A., "PLANET Observations of Anomalous Microlensing Events", Microlensing 2000: A New Era of Microlensing Astrophysics, ASP Conference Proceedings, Vol. 239. Edited by J. W. Menzies and Penny D. Sackett. San Francisco: Astronomical Society of the Pacific, ISBN: 1-58381-076-5, 2001, p.135

87. Gaudi, B. S., Albrow, M. D., An, J. H., Beaulieu, J.-P., Caldwell, J. A. R., Depoy, D. L., Dominik, M., Gould, A., Greenhill, J., Hill, K., Kane, S., Martin, R., Menzies, J., Pogge, R. W., Pollard, K., Sackett, P. D., Sahu, K. C., Vermaak, P., Watson, R., Williams, A., "Microlensing constraints on the frequency of Jupiter-mass planets", *Microlensing 2000: A New Era of Microlensing Astrophysics*, ASP Conference Proceedings, Vol. 239. Edited by J. W. Menzies and Penny D. Sackett. San Francisco: Astronomical Society of the Pacific, ISBN: 1-58381-076-5, 2001, p.135, astro-ph/0004269, 2000
86. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order), *Variable Star Research by the PLANET Collaboration*, ilss.conf, 25, 2000.
85. Smette, Alain, Gull, Theodore, Lindler, Don, Plait, Phil, Kimble, Randy, Fruchter, Andrew, Ferguson, Henry, Galama, Titus, Hogg, David W., Kouveliotou, Chryssa, Livio, Mario, Macchetto, Duccio, Metzger, Mark, van Paradijs, Jan, Pedersen, Holger, Petro, Larry, Pian, Elena, **Sahu, Kailash**, Thorsett, Stephen, *Ultraviolet Spectra of GRBs: Potential with STIS*, gesb.conf, 68, 2000
84. **Sahu, K. C.**, Kane, S., "Results from a Spectroscopic Study of Microlensed Sources towards the Galactic Bulge", *BAAS*, 04.16, 2000
83. McGrath, E. J. & **Sahu, K. C.**, "Microlensing Towards the Large Magellanic Cloud", *BAAS*, 197, 105.09, 2000.
82. **Sahu, K.C.**, Casertano, S., Livio, M., Gilliland, R., Panagia, N., Potter, M., "Gravitational Microlensing by Low Mass Objects in the Globular Cluster M22", *BAAS*, 196, 02.06, 2000.
81. Albrow, M. D., et al (PLANET Collaboration in alphabetical order), "Variable Star Research by the PLANET Collaboration", *The Impact of Large-Scale Surveys on Pulsating Star Research*, ASP Conference Series, Vol. 203; also IAU Colloquium #176. Edited by L. Szabados and D. Kurtz. ISBN: 1-58381-030-7, p.25, 2000.
80. Fruchter, A., Sahu, K., Gibbons, R., Petro, L., Ferguson, H., "HST observations of GRB 990712.", 2000, GCN 565
79. Fruchter, A., Smette, A., Gull, T., Gibbons, R., Ferguson, H., Petro, L., Sahu, K. "GRB 000301C: HST/STIS CCD imaging of the field", 2000, GCN, 602.
78. Smette, A., Fruchter, A., Gull, T., Sahu, K., Ferguson, H., Petro, L., Lindler, D., "GRB 000301C: HST/STIS-PRISM NUV-MAMA spectroscopy", 2000, GCN, 603.
77. Fruchter, A., Smette, A., Gull, T., Ferguson, H., Petro, L., Rhoads, J., Sahu, K. "GRB 000301C: late-time HST/STIS CCD imaging of the field", 2000, GCN, 627.
76. Beaulieu, J. P., Albrow, M., An, J., Caldwell, J. A. R., Depoy, D. L., Dominik, M., Gaudi, B. S., Gould, A., Greenhill, J., Hill, K., Kane, S., Martin, R., Menzies, J., Naber, R., Pogge, R., Pollard, K. R., Sackett, P. D., Sahu, K. C., Vermaak, P., Watson, R., Williams, A., The PLANET Collaboration, "The PLANET Microlensing Collaboration Search for Extrasolar Planets: Status Report", *Disks, Planetesimals, and Planets*, ASP Conference Proceedings,

Vol. 219, edited by F. Garzo'n, C. Eiroa, D. de Winter, and T. J. Mahoney. Astronomical Society of the Pacific, ISBN 1-58381-051-X, 2000, p.550

75. **Sahu, K.C.**, "The PLANET Project: study of unseen lenses, stars and extra-solar planets through microlensing", STScI Newsletter, Vol 16, no. 1, p1, Jan. 1999.
74. Bakos, G., **Sahu, K.C.**, Menzies, J., Vreeswijk, P., Frontera, F., "GRB 990712", IAU Circular 7225, 1999.
73. Gaudi, S. with the PLANET collaboration, "Microlensing Constraints on the Frequency of Jupiter Mass Planets", BAAS, 195.2404, 2000.
72. Dominik, M., with the PLANET collaboration, 1999, "The PLANET microlensing followup network: Results and prospects for the detection of extra-solar planets", Proc. of the General Assembly of the European Geophysical Society, Physics and Chemistry of the Earth, 1999 (astro-ph/9910465)
71. **Sahu, K.C.**, "Twinkle Twinkle Lensing Star, How I Wonder Where You Are", BAAS, 193.11704, 1999.
70. DePoy, D. with the PLANET collaboration, "The 1998 PLANET Gravitational Microlensing Season" BAAS, 193.11701, 1999.
69. Gaudi, B.S.. with the PLANET collaboration, "Limits on Planetary Companions in Microlensing Event OGLE-BUL-98-14" BAAS, 193.10807, 1999.
68. Williams, R.E., et al. (the HDF-S team), "The Southern Hubble Deep Field: HDF-S", BAAS, 193.7501, 1999.
67. Gardner, J.P., Brown, M., Teplitz, H.I., Baum, S.A., Espey, B.R., Ferguson, H.C., Fruchter, A.S., Gonnella, A., Hayes, J., Martin, C.L., **Sahu, K.C.**, Savaglio, S., Smith, E., Williams, R., Wilson, J., Carollo, C.M., Kaiser, M.E., Hook, R., "The Hubble Deep Field South: UV Spectroscopy of QSO J2233-606" BAAS, 193.7503, 1999.
66. Ferguson, H.C., Baum, S.A., Busko, I., Espey, B.R., Gonnella, A., Hayes, Hodge, P., J., Martin, C.L., **Sahu, K.C.**, Savaglio, S., Smith, E., Williams, R., Wilson, J., Brown, M., Gardner, J.P., Carollo, C.M., Kaiser, M.E., "The Hubble Deep Field – South: STIS Imaging" BAAS, 193.7502, 1999.
65. **Sahu, K.C.**, "The PLANET project: study of unseen lenses, stars and extra-solar planets through microlensing", STScI Newsletter, January issue, 1999.
64. Fruchter, A., Sahu, K., Ferguson, H., Livio, M., Metzger, M. GRB 990123: reduced HST images, 1999, GCN, 255.
63. Galama, T. J., Pian, E., Palazzi, E., Frontera, F., Masetti, N., Sahu, K. C., Vreeswijk, P. M., Rol, E., van Paradijs, J., Kouveliotou, C., and 2 coauthors GRB 990316, optical observations, 1999, GCN, 280.
62. Vreeswijk, P. M., Galama, T. J., Rol, E., Pollard, K., Menzies, J., Sackett, P., Sahu, K., van Paradijs, J., Kouveliotou, C. GRB 990510 optical observations. 1999, GCN, 310.

61. Galama, T. J., Vreeswijk, P. M., Rol, E., Tanvir, N., Palazzi, E., Pian, E., Masetti, N., Frontera, F., Pollard, K., Menzies, J., and 4 coauthors GRB 990510 optical observations. 1999, GCN, 313.
60. Rol, E., Palazzi, E., Masetti, N., Pian, E., Frontera, F., Galama, T. J., Vreeswijk, P. M., van Paradijs, J., Kouveliotou, C., Bakos, G., and 5 coauthors Optical observations of GRB990627. 1999, GCN, 358.
59. Fruchter, A., Ferguson, H., Pepper, J., Gibbons, R., Sahu, K., Pian, E. Late-time HST/STIS observations of GRB 990510. 1999, GCN, 386.
58. Bakos, G., Sahu, K., Menzies, J., Vreeswijk, P., Frontera, F. GRB 990712, 1999, GCN, 387.
57. **Sahu, K.C.**, Chaney, E., Graham, J., Wieldt, D., “Candidate Microlensing Events for Detection of Image Motion by the Space Interferometry Mission”, BAAS, 192.0701, 1998.
56. **Sahu, K.C.**, “Search for Extra-Solar Planets through Monitoring Microlensing Events from Antarctica”, BAAS, 192.6222, 1998.
55. Kane, S., **Sahu, K.C.**, “Spectroscopic Studies of Microlensed Sources towards the Galactic Bulge”, BAAS, 192.5411, 1998.
54. **Sahu, K.C.**, Sterken, GRB980109, IAU Circular 6808, 1998.
53. **Sahu, K.C.**, Livio, M., Petro, L., Macchetto, F.D., Galama, T., Groot, P., van Paradijs, J., & Kouveliotou, C., “HST observations of GRB970228”, BAAS, 190, 5305, 1997.
52. Livio, M., **Sahu, K.C.**, Fruchter, A., Petro, L., Macchetto, F.D., van Paradijs, J., Kouveliotou, C., Fishman, G.J., Meegan, C., Groot, P., & Galama, T. “GRB 970228 and GRB 970508: what have we learnt?”, Proc. Huntsville Symp. on Gamma-Ray Bursts, Ed. C.A. Meegan, R.D. Preece, T.M. Koshut, p483, (astro-ph/9712097),1997.
51. Fruchter,A., Pian, E., Thorsett, S.E., Gonzalez, R.A., **Sahu, K.C.**, Mutchler, M., Frontera, F., Galama, T., Groot, P., Hook, R., Kouveliotou, C., Livio, M., Macchetto, D., van Paradijs J., Palazzi, E., Petro, L., Tavani, M., “HST/STIS Observations of the Optical Counterpart to GRB 970228”, Proc. Huntsville Symp. on Gamma-Ray Bursts, Ed. C.A. Meegan, R.D. Preece, T.M. Koshut, p509, (astro-ph/9801169), 1997.
50. **Sahu, K.C.**, HST Observations of Gamma-Ray Bursts, BAAS, 191, 1401, 1997.
49. Bobrowsky, M., **Sahu, K.C.**, Parthasarathy, M., Garcia-Lario, P., Collimated Outflows in the Stingray Nebula (He 3-1357), BAAS, 191, 1397, 1997.
48. Gull, T. R., Sonneborn, G., Woodgate, B. E., Dolan, J. F., Lindler, D. J., Crenshaw, D. M., Kraemer, S. B., **Sahu, K.C.**, Hulbert, S. J., Lundqvist, P., Sollerman, J., STIS Near Ultraviolet Time-Tagged Spectra of the Crab Pulsar, BAAS, 191, 1392, 1997.
47. **Sahu, K.C.**, Livio, M., Petro, L., Macchetto, F.D., “GRB970228”, IAU Circular, 6606, 1997.
46. **Sahu, K.C.**, Livio, M., Petro, L., Macchetto, F.D., van Paradijs, J., Kouveliotou, C., Fishman, G.J., Meegan, C., Groot, P., & Galama, T. “GRB970228”, IAU Circular 6619, 1997.

45. Donahue, M., **Sahu, K.C.**, Livio, M., Petro, L., Stocke, J. T., Groot, P., & van Paradijs, J., “GRB970508” IAU Circular 6666, 1997.
44. Brocato, E., Stiavelli, M., **Sahu, K.C.**, GRB 970828, IAU Circular 6729, 1997.
43. Fruchter, A., Livio, M., Macchetto, D., Petro, L., **Sahu, K.**, Pian, E., Frontera, F., Thorsett, S., Tavani, M., Lamb, D., 1997, GRB 970228, IAU Circular 6747, 1997.
42. **Sahu, K.C.**, “Spectroscopic observations of the arcs in the most luminous x-ray cluster RXJ 1347.5-1145”, presented at 189th AAS Meeting, Toronto, Jan 13-16, 1997.
41. Albrow, M. et al (i.e. PLANET Collaboration in alphabetical order), “The PLANET Collaboration: Current Status and Future Prospects”, Proc. of the ASP Conf. 119 on “Planets beyond the solar system and the next generation of space missions”, Ed. D. Soderblom, p. 91, 1997.
40. **Sahu, K.C.** (Oral presentation), “The PLANET collaboration” M.Albrow et al. (i.e., The PLANET Collaboration in alphabetical order), BAAS, 27, 1449, 1996.
39. Albrow, M. et al (i.e. PLANET Collaboration, of which **K.C. Sahu** is a co-founder, in alphabetical order¹), “The PLANET Collaboration: Probing Lensing Anomalies”, ”Proceedings of the 12th IAP Conference: Variable Stars and the Astrophysical Returns of Microlensing Surveys”, 1996.
38. Courbin, F., **Sahu, K.C.** and Meylan, G., “Microlensing in the lensed quasar UM 425?”, Proc. IAU Sym 173, eds. C. Kochanek and J. Hewitt, p253 (1995)
37. **Sahu, K.C.**, “Implications of the LMC stars as lenses”, Bull. AAS, 27, 769, 1994.
36. **Sahu, K.C.**, “Microlensing events of the LMC are better explained by stars within the LMC than by MACHOs”, Bull. American Astron. Soc. 26 p965, 1994.
35. Kidger, M., Devaney, N., **Sahu, K.C.**, Lopez, S., ”Nova Cas”, IAUC 5936, 1993.
34. Walton, N., Walsh, J., **Sahu, K.C.**, “Kinematic structure of NGC 7139”, Proc. of Conf. on “From Miras to Planetary Nebulae: which path for stellar evolution?”, Ed. M.O. Menniesier and A. Omont, Editions Frontiers, p412, 1990.
33. Charles, P., **Sahu, K.C.** (and others), “The bright X-ray transient V404 Cyg in optical outburst and decline”, Proc. 23rd ESLAB Symposium on X-ray Astronomy, Ed. J. Hunt and B. Battrick, p103, 1990.
32. **Sahu, K.C.**, Carter, D., “SN 1989L in NGC 7339”, IAUC 4799, 1989.
31. Szkody, P., **Sahu, K.C.**, et al., “V404 Cyg”, IAUC 4794, 1989.
30. **Sahu, K.C.**, Pottasch, S.R. and Sahu, M.S., “Primordial lithium abundance from the interstellar lithium lines towards SN 1987A”, Proc. AIP Conference 183 on “Cosmic Abundances of Matter”, Ed. C. Jake Waddington, p420, 1989.

29. Garcia-Lario, P., Manchado, A., **Sahu, K.C.** and Pottasch, S.R., “A possible nova from the IRAS point source catalogue”, Lecture Notes in Phys., Proc. of IAU Colloq. 122 on “Physics of Classical Novae”, Ed. A. Cassatella and R. Viotti, 1989, p55, 1989.
28. **Sahu, K.C.**, Pottasch, S.R., Anandarao, B.G., and Desai, J.N., “Kinematic structure and chemical composition of the double shell PN NGC 3242”, Proc. IAU Symp. 131 on *Planetary Nebulae*, p200, 1988.
27. **Sahu, K.C.** and Pottasch, S.R., “Expansion velocities of southern planetary nebulae”, Proc. IAU Symp. 131 on *Planetary Nebulae*, p196, 1988.
26. Srinivasan, M., Pottasch, S.R., **Sahu, K.C.** and Pecker, J.-C., “Internal dynamics of the Gum nebula”, The Messenger, no. 50, p11, 1987.
25. **Sahu, K.C.**, Desai, J.N., Srinivasan, M., and Gupta, R., “Technique and advantages of using multiple zone apertures in Fabry-Pérot spectroscopy”, Proc. Soc. Photo-Opt. Instrum. Eng. 627, 50, 1986.
24. **Sahu, K.C.**, Desai, J.N., and Jog, N.S., “A high-resolution pressure scanned photoelectric Fabry-Pérot spectrometer for velocity field studies of extended objects”, Proc. Soc. Photo-Opt. Instrum. Eng. (SPIE), 445, 33, 1984.

HST-related (functional) Publications

23. **Sahu, K.C.**, Editor, STIS Instrument Handbook v3.0 (STScI), 1999.

• Instrument Science Reports/Technical Instrument Reports

22. Sahu, Kailash C., Lallo, Matt, Makidon, Russ, "ACS PSF Variations with Temperatures," Instrument Science Report ACS 2007-12 (2007)
21. Mitchell, G, **Sahu, K.C.**, Downes, R., "STIS Pipeline Group Procedure for CALSTIS Releases", STIS TIR 2001-03, 2001
20. Dashevsky, I, **Sahu, K.C.**, Smith, E., STIS Timetag Analysis Guide, STIS ISR 2000-02, 2000.
19. Mitchell, G, **Sahu, K.C.**, Downes, R., "STIS Pipeline Group Procedure for CALSTIS Releases", STIS TIR 2001-03, 2001
18. **Sahu, K.C.**, Internal to External Wavelength Calibration, STIS ISR 98-30, 1998.
17. **Sahu, K.C.**, Hodge, P., Kraemer, S., "Doppler compensation in CALSTIS", STIS ISR 98-05, 1998.
16. **Sahu, K.C.**, Hulbert, S., Lanning, H., Christensen, J, 1998, "Spectroscopic Mode Image Quality of the STIS First Order Modes", STIS ISR 98-04, 1998.
15. **Sahu, K.C.** and Wilson J., "Implementation Plan for an Emission Line Tool in the Spectroscopic ETC", STIS TIR 98-03, 1998.
14. Kinney, E., Wilson, J., **Sahu, K.C.**, Simon, B., Ferguson, H., Christensen, C., "STIS comp and graph tables", STIS TIR 98-04, 1998.
13. Wilson, J. and **Sahu, K.C.**, "The STIS Target Acquisition ETC", STIS TIR 98-02, 1998.
12. **Sahu, K.C.**, Bohlin, R. and Christensen, J., "Scattering in Echelle Modes and its Implementation in the STIS Spectroscopic ETC", STIS ISR (version 0), 1998.
11. **Sahu, K.C.**, Kinney, E., "STIS ETC Training Manual: details of the file structures and description of the code", STIS ISR 97-18, 1997
10. **Sahu, K.C.**, "STIS cross-disperser modes", STIS-TIR 97-22, 1997.
9. Hack, W., **Sahu, K.C.**, et al., "Implementation of the STIS ETC in the WWW" STIS ISR 96-20, 1996.
8. **Sahu, K.C.**, et al., "TIME-TAG Mode of STIS Observations Using the MAMA Detectors", STIS ISR 95-11, 1995.

• Conference Presentations

7. J. E. Davies, T. M. Brown, P. Goudfrooij, C. Proffitt, **K. C. Sahu**, D. Stys, J. Valenti, "STIS Status after the Switch to Side-2, Calibration and Time-Tag Fixes", BAAS, 199.0803, 2001.

6. Mitchell, G. L., Kriss, G. A., Goudfrooij, P., **Sahu, K. C.**, Downes, R. A., “Results from STIS Calibration Programs and News on the Data Processing”, BAAS, 197, 12.01, 2000
5. Wilson, J., **Sahu, K.C.**, “The STIS ETC Emission Line Tool”, BAAS, 192.3804, 1998.
4. **Sahu, K.C.**, Hulbert, S., Lanning, H., Christensen, J, Bull. Am. Astron. Soc. “Spectroscopic Mode Image Quality of STIS”, BAAS, 29, p1240, 1997.
3. Wilson, J., Kinney, E. K., **Sahu, K.C.**, Hack, W. J., “Tools for Planning Observations with STIS”, BAAS, 29, 1239, 1997.
2. Bowers, C., Hartig, G., Kaiser, M., Kraemer, S., Gull, T., Kimble, R., Woodgate, B., Bohlin, R., Plait, P., Lindler, D., Ebbets, D., Sullivan, J., Hill, R. S., Kinney, E., **Sahu, K.C.**, Crenshaw, M., Collins, N., Danks, A., Robinson, R., Cornett, R., & Gruzyzak, A., “In-flight Optical Performance of the Space Telescope Imaging Spectrograph”, BAAS 190, 4206, 1997.
1. Hulbert, S. J., Hodge, P. E., Miller, W. W., III, Rose, J., **Sahu, K.C.**, Lindler, D. J., “Pipeline Processing of STIS TIMETAG Mode Data”, BAAS, 191, 1240, 1997.