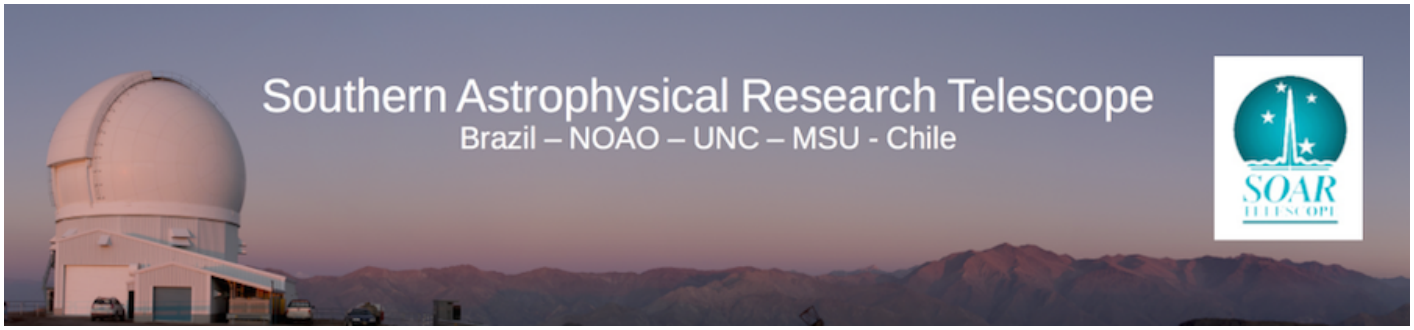

Technical Publications and Documents

Publications

- GLAO in the visible, the SAM experience, by A. Tokovinin. In: Adaptive Optics for ELT3, Florence, May 2013 (sciencesconf.org:ao4elt3:12940) [PDF, 240K [1]]
- Performance of the SOAR adaptive module with UV Rayleigh guide star, by A.Tokovinin, R.Tighe, P.Schurter, R.Cantarutti, N.van der Bliek, M.Martinez, E.Mondaca, S.Heathcote. 2012, Proc. SPIE, 8447, paper 166 [PDF, 904K [2]]
- SAM sees the light, by A.Tokovinin, R.Tighe, P.Schurter, R.Cantarutti, N.van der Bliek, M.Martinez, E.Mondaca, A.Montane, W. Naudy Cortes. 2010, Proc. SPIE, 7736, paper 7736-132 [PDF, 874K [3]]
- SAM - a facility GLAO instrument, by A.Tokovinin, R.Tighe, P.Schurter, R.Cantarutti, N.van der Bliek, M.Martinez, E.Mondaca, A.Montane. Proc. SPIE, 2008, V. 7015, paper #157 [PDF, 2M [4]]
- Performance and error budget of a GLAO system, by A.Tokovinin. Proc. SPIE, 2008, V. 7015, paper #77[PDF, 216KB [5]]
- SPIE Paper: A. Tokovinin, S. Thomas, B. Gregory, N.van der Bliek, P. Schurter, R. Cantarutti, "Design of ground-layer turbulence compensation with a Raleigh beacon". Proc. SPIE, 2004, 5490, 870-878 [540K, PDF [6]]
- SPIE Paper: A. Tokovinin, S. Thomas, G. Vdovin, "Using 50-mm electrostatic membrane deformable mirror in astronomical adaptive optics" Proc. SPIE, 2004, 5490, 580-585 [328K, PDF [7]]
- SPIE Paper: S. Thomas, "A Simple Turbulence Simulator for Adaptive Optics" Proc. SPIE, 2004, 5490, 766-773 [675.4KB, PDF [8]]
- SPIE Paper: S. Thomas, "Optimized Centroid Computing in a Shack-Hartmann Sensor" Proc. SPIE, 2004, 5490, 1238-1246 [325.8KB, PDF [9]]
- S. Thomas, "SAM - the SOAR Adaptive Module". Paper at "DEUXIEMES JOURNEES D'IMAGERIE A TRES HAUTE DYNAMIQUE ET DETECTION D'EXOPLANETES" (Nice, 6-10th October, 2003 - to be published by EAS) [340K, PDF [10]]
- The PAPER [11] and the presentation (.ppt) [12] at the SPIE Waikoloa Conference in August 2002 (SPIE Proc., 2003, V. 439, pp. 673-680).

Documents

- SOAR Telescope Control System [PDF [13]]. November 9, 2005
- Update of LGS design (R.Tighe) [PPT, 353Kb [14]]. May 22, 2007
- Location of SAM laser at SOAR (R.Tighe) [PPT, 488Kb [15]]. December 20, 2006
- SOAR Computer System Diagrams [PDF [16]]. November 9, 2005
- Interface of the SOAR M3 with a Tip-Tilt Error Sensor [PDF [17]]. November 9, 2005
- SOAR TCS Commands [PDF [18]]. November 9, 2005
- Tertiary Mirror Assembly Electrical Interface [PDF [19]]. November 9, 2005
- The SOAR Communication Library New (SCLN) [PDF [20]]. November 9, 2005
- Report on the closed loop tests [HTML [21]]. March 2, 2005
- Presentation for the Observatories Council meeting given on June 3, 2004 [1048K, PPT [22]]
- Report on Delta-CoDR (May 19, 2004) (PDF [23])
- Adaptive Optics Tutorial [24] at CTIO [html].
- ACTR meeting, CTIO, May 26, 2003 [html] [25]
- Concepts of Adaptive Optics for SOAR. [Document: 342K, PS] [26]
- Presentation of SOAR AO (July 12, 2001) [Slides: 360K, PS] [27]
- Simulation results [28] (text files)
- Results of system simulation with F.Rigaut's code (Dec 10, 2001) [95K, PS] [29]
- SOAR SAC, Oct-10-2001: html presentaion of AO project [30]
- Project description (rev.1.7, Sept. 2001) [84K, gzipped PS] [31]
- The html document (Sept. 2001): Concepts of Adaptive Optics for SOAR. [32]
- Seeing at Cerro Pachon [52K, PS] [33]

Links
[1] http://www.ctio.noirlab.edu/soar/sites/default/files/SAM/archive/sam_ao4elt3.pdf
[2] http://www.ctio.noirlab.edu/soar/sites/default/files/SAM/archive/sam_2012.pdf
[3] http://www.ctio.noirlab.edu/soar/sites/default/files/SAM/archive/sam_2010.pdf
[4] http://www.ctio.noirlab.edu/soar/sites/default/files/SAM/archive/sam_2008.pdf
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[21] http://www.ctio.noao.edu/new/Telescopes/SOAR/Instruments/SAM/loop1/loop1.html
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[26] http://www.ctio.noirlab.edu/soar/sites/default/files/SAM/archive/concept7.ps

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