

Figure: GPI light path [Macintosh et al., 2008, 2014].





B. A. Macintosh, J. R. Graham, D. W. Palmer, R. Doyon, J. Dunn, D. T. Gavel, J. Larkin, B. Oppenheimer, L. Saddlemyer, A. Sivaramakrishnan, et al. The gemini planet imager: from science to design to construction. In Proc. SPIE, volume 7015, page 701518, 2008. D. Savransky, S. J. Thomas, L. A. Poyneer, and B. A. Macintosh. Computer vision applications for coronagraphic optical alignment and image processing. Applied *Optics*, 52(14):3394–3403, 2013.

R. Soummer. Apodized pupil lyot coronagraphs for arbitrary telescope apertures. The Astrophysical Journal Letters, 618(2):L161–L164, 2005.

Acknowledgements: GPI has been supported by Gemini Observatory, which is operated by the Association of Universities for Research in Astronomy, Inc., under a cooperative agreement with the NSF on behalf of the Gemini partnership: the National Science Foundation (United States), the National Research Council (Canada), CONICYT (Chile), the Australian Research Council (Australia), Ministério da Ciéncia, Tecnologia e Inovação (Brazil), and Ministerio de Ciencia, Tecnología e Innovación Productiva (Argentina). Portions of this work were performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344. The GPI team makes use of Dropbox for sharing large datasets among team members and thanks Dropbox for sponsoring a team account.

ds264@cornell.edu