

“Inflows and outflows around Active Galactic Nuclei”

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This work was prepared for oral presentation, and includes the results of observations of inflows and outflows around nearby Active Galactic Nuclei with the Integral Field Units of the Gemini Telescopes. These results can be found in the following papers:

- 1) Fathi, K., Storchi-Bergmann, T., Riffel, R. A., Winge, C., Axon, D. J., Robinson, A., Capetti, A. & Marconi, A. 2006, ApJ, 2006, *Streaming Motions toward the Supermassive Black Hole in NGC 1097*, The Astrophysical Journal, 641, L25-L28.**
- 2) Riffel R. A., Storchi-Bergmann T., Winge C., Barbosa F. K. B., 2006, *Gemini near-infrared integral field spectroscopy of the narrow-line region of ESO428-G14: kinematics, excitation and the role of the radio jet*, Monthly Notices of the Royal Astronomical Society, 373, 2-12.**
- 3) Riffel, R.A., Storchi-Bergmann, T., Winge, C., McGregor, P. J., Beck, T., Schmitt, H., 2008, *Mapping of molecular gas inflow towards the Seyfert nucleus of NGC4051 using Gemini NIFS*, Monthly Notices of the Royal Astronomical Society, 385, 1129-1142.**
- 4) Riffel, R. A.; Storchi-Bergmann, T.; Dors, O. L.; Winge, C., 2009, *AGN-starburst connection in NGC7582: Gemini near-infrared spectrograph integral field unit observations*, MNRAS, 393, 783**
- 5) Riffel, R. A.; Storchi-Bergmann, T.; McGregor, P. J., 2009, *The Dusty Nuclear Torus in NGC 4151: Constraints from Gemini Near-Infrared Integral Field Spectrograph Observations*, ApJ, 698, 1767**
- 6) Riffel R. A., Storchi-Bergmann T, Nagar, N., 2010, *Near-IR dust and line emission from the central region of Mrk1066: Constraints from Gemini NIFS*, Monthly Notices of the Royal Astronomical Society, em impressão**
- 7) Storchi-Bergmann, T., Dors, O. L., Jr., Riffel, R. A., Fathi, K., Axon, D. J., Robinson, A., Marconi, A., Östlin, G., 2007, *Nuclear Spirals as Feeding Channels to the Supermassive Black Hole: The Case of the Galaxy NGC 6951*, The Astrophysical Journal, 670, 959-967.**
- 8) Storchi-Bergmann, T., McGregor, P. J., Riffel, R. A., Simões-Lopes, R. D., Beck, T., Dopita, M. 2009, *Feeding versus Feedback in NGC4151 probed with Gemini NIFS. I. Excitation*, Monthly Notices of the Royal Astronomical Society, 394, 1148-1166**
- 9) Storchi-Bergmann, T., Simões-Lopes, R. D., McGregor, P. J., Riffel, R. A., Beck, T., Martini, P. 2010, *Feeding versus Feedback in NGC4151 probed with Gemini NIFS. II. Kinematics*, Monthly Notices of the Royal Astronomical Society, 402, 819**