



The Walsworth Group

Harvard-Smithsonian Center for Astrophysics
Harvard University Department of Physics

[Opportunities for Students](#)

[Areas of Research](#)

[Recent Results](#)

[The Group](#)

[Seminars](#)

[Bibliography](#)

[Popular Articles](#)

[Collaborators](#)

[Project Support](#)

Group seminars in 2007

- Jan. 05 - Jeronimo Maze (Lukin group) - *Angular dependence of spin coherence effects in nitrogen-vacancy diamond*
Jan. 12 - Jacob Aptekar - *Brute Force Hyperpolarization in Silicon Nanoparticles*
Jan. 19 - Tun Wang (UConn) - *Anomalous intensity correlation and anticorrelation in*
Jan. 26 - Anatoly Dementyev (MIT) - *Low temperature DNP in ^{29}Si*
Feb. 02 - Alex Glenday - *First few months data from Lorentz symmetry tests with the dual noble gas maser*
Feb. 09 - Cindy Hancox - *Update on small-cell N-resonance studies*
Feb. 16 - Mike Hohensee - *First results from vapor cell studies to enable an Ives-Stilwell test*
Feb. 23 - David Phillips - *Thoughts and plans for stored light experiments*
Mar. 02 - Naomi Ginsburg (Hau group) - *"The medium is the message": Manipulating optical information with coherent atomic wavefunctions*
Mar. 09 - Jake Taylor (MIT) - *Possible limits to NV center-based magnetometry*
Mar. 16 - Franz Kaertner (MIT) - *Octave Spanning Lasers, Frequency Combs and Optical Clocks*
Mar. 23 - Jacob Aptekar - *Overhauser-enhanced Magnetic Resonance Imaging (oMRI)*
Mar. 30 - Leo Tsai - *Update of LFI development and near-term ^3He human lung studies*
Apr. 06 - Yanhong Xiao & Mason Klein - *Using atoms to split light in a coated cell*
Apr. 13 - Chi-Hao Li - *^3He polarizer hardware advances*
Apr. 20 - Pdraig Cantillon-Murphy (MIT) - *RF-modulation of the complex susceptibility of magnetic nanoparticles*
Apr. 27 - Alex Glenday - *Resonant Circuit Stability in the Dual Noble Gas Maser*
May. 04 - Richard Hickman (AMP/HEA) - *The POEM Capacitance Gauges*
May. 18 - Ana Batrachenko & Rachel Scheidegger - *Recent lung imaging experiments in the open-access imager*
May. 25 - Pablo Londero (Prentiss group) - *Nonlinear Optics in 2D+1 Pencil-Shaped MOTs*
June 01 - Julien Le Gouet (Observatoire de Paris) - *Cold atom absolute gravimeter*
June 15 - Wilson Barros (Vanderbilt U) - *Enhancement in Low-Field MRI*
June 22 - Susie Huang (HST) - *Avalanching Amplification of Sensitivity and Contrast by Feedback-Enhanced NMR and MRI*
July 13 - Jon Marmurek & Rob Barton - *Si nanoparticle characterization/functionalization*
July 20 - Paul Stanwix - *Test of Lorentz invariance in electrodynamics using rotating cryogenic sapphire microwave oscillators*
July 27 - Ross Mair - *Back to ... 2003: NMR studies of Xenon gas diffusion and flow in porous media*
Aug. 03 - Alex Glenday - *Progress Towards an Anomalous Neutron Spin-Spin Coupling Measurement*
Aug. 17 - Yanhong Xiao - *Coherence in EIT noise spectroscopy*
Aug. 24 - Masha Baryakhtar - *EIT basics*
Aug. 24 - Cleo Leung - *Other basics*
Aug. 31 - Tun Wang (UConn) - *Diffusion induced decoherence of stored optical vortices and the effects of diffusion on stored images*
Sep. 07 - Michael Hohensee - *Quantum Properties of Coated Cell Beamsplitters*
Sep. 14 - Rachel Scheidegger & Paola Cappellaro - *Inhomogeneous field correction in MRI*
Sep. 19 - Dan Chonde - *NMR/MRI with hyperpolarized species*
Sep. 19 - Mark Browning - *Maser basics*
Sep. 28 - Yanhong Xiao - *Subwavelength "optical resonance imaging" (ORI)*
Oct. 05 - Saijun Wu - *Talbot-Lau interferometry with magnetically guided atoms*
Oct. 12 - Alex Glenday - *Setting a Limit on Anomalous Spin-Spin Coupling with the Dual Noble Gas Maser*
Oct. 19 - Tao Hong (???) - *Electromagnetically Induced Transparency in Buffer Gas Cooled Rb Vapor*
Oct. 26 - David Phillips & Matt Rosen - *Novel magnetometry for MRI: Work for Siemens, AG*
Nov. 02 - Yanhong Xiao - *Subwavelength "optical resonance imaging" (ORI)*
Nov. 09 - Claire Cramer - *The Other Telescope Calibration Effort*
Nov. 30 - Jean Livet (Center for Brain Sciences) - *"Brainbows"*
Dec. 07 - Chih-Hao Li - *Plan for astro-comb construction*
Dec. 21 - James Battat (Stubbs group) - *tba*

[Group seminars in 2006](#)