

DAVID H. COHEN: PREVIOUS CHANDRA PROJECTS (year in parentheses denotes graduating class of undergraduate co-author)

AO1 - τ Sco (PI) - publication: Cohen, de Messieres ('04), MacFarlane, Miller, Cassinelli, Owocki, & Liedahl, "Chandra Spectroscopy of τ Scorpii: A Narrow Lined Spectrum from a Hot Star," 2003, *Ap.J.*, 586, 495

AO1 - ζ Pup and δ Ori (co-I) - publications: 1. Cassinelli, Miller, Waldron, MacFarlane, & Cohen, "Chandra Detection of Doppler Shifted X-ray Line Profiles from the Wind of ζ Puppis (O4f)," 2001, *Ap.J.L.*, 554, L55; 2. Miller, Cassinelli, Waldron, MacFarlane, & Cohen, "New Challenges for Wind Shock Models: The Chandra Spectrum of the Hot Star δ Orionis," 2002, *Ap.J.*, 577, 951; 3. Kramer ('03), Tonnesen ('03), Cohen, Owocki, ud-Doula, & MacFarlane, "X-ray Emission Line Profile Modeling of Hot Stars," 2003, *Rev. Sci. Inst.*, 74, 1966; 4. Kramer ('03), Cohen & Owocki, "X-ray Emission Line Profile Modeling of O Stars: Fitting a Spherically-Symmetric Analytic Wind-Shock Model to the Chandra Spectrum of ζ Puppis," 2003, *Ap.J.*, 592, 532

AO2 - γ Cas (co-I) - publication: Smith, Cohen, Gu, Robinson, Evans, & Schran, "High-Resolution Chandra Spectroscopy of γ Cassiopeia (B0.5e)," 2004, *Ap.J.*, 600, 972

AO3 - θ^1 Ori C (co-I) - publication: Gagne, Oksala, Cohen, Tonnesen, ud-Doula, Owocki, Townsend, & MacFarlane, "Chandra HETGS Multi-phase Spectroscopy of the Young Magnetic O star θ^1 Ori C," 2005, *Ap.J.*, 628, 986

AO3 - β Cru (PI) – Cohen, Kuhn ('07), Gagne, Jensen, & Miller, "Chandra Spectroscopy of the Hot Star β Crucis and the Discovery of a Pre-Main-Sequence Companion," *MNRAS*, in press (arXiv:0808.4084v1)

AO4 - DoAr 21 (co-I) - manuscript in preparation for submission to *Ap.J.*, AAS presentation available at: astro.swarthmore.edu/~cohen/projects/doar21/DoAr21_AAS2005.jpg

AO6 - archive (PI) - publications: 1. Owocki & Cohen, "The Effects of Porosity on X-ray Emission Line Profiles from Hot-Star Winds," 2006, *Ap.J.*, 684, 565; 2. Cohen, Leutenegger, Grizzard ('06), Reed ('05), Kramer ('03), & Owocki, "Wind Signatures in the X-ray Emission Line Profiles of the Late O Supergiant ζ Orionis," 2006, *MNRAS*, 368, 1905

AO6 - theory (co-I) - publications: 1. Gagne, Oksala, Cohen, Tonnesen, ud-Doula, Owocki, Townsend, & MacFarlane, "Chandra HETGS Multi-phase Spectroscopy of the Young Magnetic O star θ^1 Ori C," 2005, *Ap.J.*, 628, 986; 2. ud-Doula, Townsend, & Owocki, "Centrifugal Breakout of Magnetically Confined Line-Driven Stellar Winds," *Ap.J.L.*, 640, L191

AO8 - archive (PI) - publications: 1. Leutenegger, Paerels, Kahn, & Cohen, "Measurement and Analysis of Helium-Like Triplet Ratios in the X-ray Spectra of O-Type Stars," 2006, *Ap.J.*, 650, 1096; 2. Cohen, "X-ray Emission from O Stars," 2008, in *IAU 250: Massive Stars as Cosmic Engines*, Cambridge University Press, in press