Magnetic hot stars as laboratories for wind physics (#1259)

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Surface magnetic fields channel and confine the outflowing winds of hot stars, leading to complex magnetospheric structures that glow across the entire electromagnetic spectrum. Modern models of magnetic wind confirment make quantitative predictions linking observational diagnostics of magnetospheric plasmas with the intrinsic properties of the stellar wind, making them novel laboratories for investigating wind physics.

In this presentation we review how optical and X-ray emission from hot star magnetospheres can be leveraged to place unique constraints on the mass-loss rates of magnetic B and O stars.