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Interacting pulsar winds in X-ray and gamma-ray binaries

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The presence of a relativistic pulsar wind has been established in several X-ray binaries. The interaction of the pulsar wind with the stellar companion, stellar wind, or accretion disk can lead to peculiar signatures, most prominently the emission of high-energy gamma-rays. I will describe our efforts to model this interaction in order to translate gamma-ray observations into a better understanding of relativistic magnetized outflows.

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