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**Spin Dynamics in Black-Hole Binaries** YOSEF ZLOCHOWER,  
MANUELA CAMPANELLI, CARLOS LOUSTO, The University of Texas at  
Brownsville, BADRI KRISHNAN, Albert-Einstein-Institut, DAVID MERRITT,  
Rochester Institute of Technology — We present results from recent simulations  
of merging black-hole binaries with individual spins unaligned with the orbital an-  
gular momentum. These binaries show spin and orbital plane precession, as well as  
flips in the direction of the spin between the individual spins and the final remnant  
spin. This latter effect is thought to be responsible for the sudden change in the  
direction of the jets observed in some AGN.

Yosef Zlochower  
The University of Texas at Brownsville

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