

# JOINT TUFTS/MIT COSMOLOGY SEMINAR

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## *Spinning black holes as cosmic string factories*

Yuri Levin  
Columbia

I will discuss what happens when a black hole captures a much larger in size cosmic string loop. In some cosmological scenarios, such encounters are not unlikely for supermassive black holes in galactic nuclei, and for primordial black holes. The talk will feature some fun physics and geometry: non-flat quadrilaterals, black-hole superradiance, one-dimensional geometric flows, and persistent ultra-relativistic gravitational-wave whips.

**Tuesday, December 1, 2020, 2:30 pm**

Zoom link will be distributed to joint cosmology seminar mailing list. If not subscribed see <https://cosmos.phy.tufts.edu/mailman/listinfo/cosmology-seminar>

**Tufts University**