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Black Holes - Nature or Nurture?: The Roles of Rotation and Accretion in Powering Cosmic Sources

Monday, July 5, 2021 6:55 PM (34 minutes)

Black holes power many of the most powerful sources in the universe through their disks, jets and winds. They are powered by their rotational energy (Nature) and by the gravitational energy of accreting gas and stars (Nurture). The balance of these two modes and their implications, will be re-examined in the light of recent, remarkable observations of the nearby galaxy M87 by the Event Horizon Telescope as well as other developments. The importance of the dragging of inertial frames for rotational energy extraction, particle acceleration and imaging will be highlighted.

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Session Classification: Dragging is Never Draggy: MAss and CHarge Flows in GR

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