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Journal Articles

- Li, Rixin, Youdin, Andrew N., **Simon, Jacob B.**, “Demographics of Planetesimals Formed by the Streaming Instability”, submitted to ApJ.
- Armitage, Philip J., Raymond, Sean N., **Simon, Jacob B.**, “A turbulent minimum planetesimal scale and implications for cratering in the Kuiper Belt”, submitted to MNRAS Letters.
- Mishra, Bhupendra, Begelman, Mitchell C., Armitage, Philip J., **Simon, Jacob B.** “Strongly magnetized accretion disks: structure and accretion from global magnetohydrodynamic simulations”, submitted to MNRAS.
- * Abod, Charles P., **Simon, Jacob B.**, Li, Rixin, Armitage, Philip J., Youdin, Andrew N., Kretke, Katherine A. “The Mass and Size Distribution of Planetesimals Formed by the Streaming Instability. II. The Effect of the Radial Pressure Gradient”, accepted to ApJ.
- Nesvorný, David, Li, Rixin, Youdin, Andrew N., **Simon, Jacob B.**, Grundy, William M. “Trans-Neptunian Binary Evidence for Planetesimal Formation by the Streaming Instability”, 2019, Nature Astronomy, Vol. 3, 808-812.
- * Gole, Daniel A., **Simon, Jacob B.** “The Nature of Turbulence in the Outer Regions of Protoplanetary Disks”, 2018, ApJ, 869, 84-95
- **Simon, Jacob B.**, Bai, Xue-Ning, Flaherty, Kevin M., Hughes, A. Meredith “Origin of Weak Turbulence in the Outer Regions of Protoplanetary Disks”, 2018, ApJ, 865, 10-20
- Li, Rixin, Youdin, Andrew N., **Simon, Jacob B.**, “On the Numerical Robustness of the Streaming Instability: Particle Concentration and Gas Dynamics in Protoplanetary Disks”, 2018, ApJ, 862, 14-30
- Flaherty, Kevin M., Hughes, A. Meredith, Teague, Richard, **Simon, Jacob B.**, Andrews, Sean M., Wilner, David J. “Turbulence in the TW Hya Disk”, 2018, ApJ, 856, 117-129
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- **Simon, Jacob B.** “The Influence of Magnetic Field Geometry on the Formation of Close-In Exoplanets”, 2016, ApJL, 827, L37-L41
- * Gole, Daniel A., **Simon, Jacob B.**, Lubow, Stephen H., Armitage, Philip J., “Turbulence, Transport and Waves in Ohmic Dead Zones”, 2016, ApJ, 826, 18-30
- **Simon, Jacob B.**, Armitage, Philip J., Li, Rixin, Youdin, Andrew N. “The Mass and Size Distribution of Planetesimals Formed by the Streaming Instability. I. The Role of Self-Gravity”, 2016, ApJ, 822, 55-72

- *Salvesen, Greg, Armitage, Philip J., **Simon, Jacob B.**, Begelman, Mitchell C., “Strongly magnetized accretion discs require poloidal flux”, 2016, MNRAS, 460, 3488-3493
- *Salvesen, Greg, **Simon, Jacob B.**, Armitage, Philip J., Begelman, Mitchell C., “Accretion disc dynamo activity in local simulations spanning weak-to-strong net vertical magnetic flux regimes”, 2016, MNRAS, 457, 857-874
- **Simon, Jacob B.**, Lesur, Geoffroy, Kunz, Matthew W., Armitage, Philip J., “Magnetized accretion in protoplanetary discs”, 2015, MNRAS, 454, 1117-1131
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