

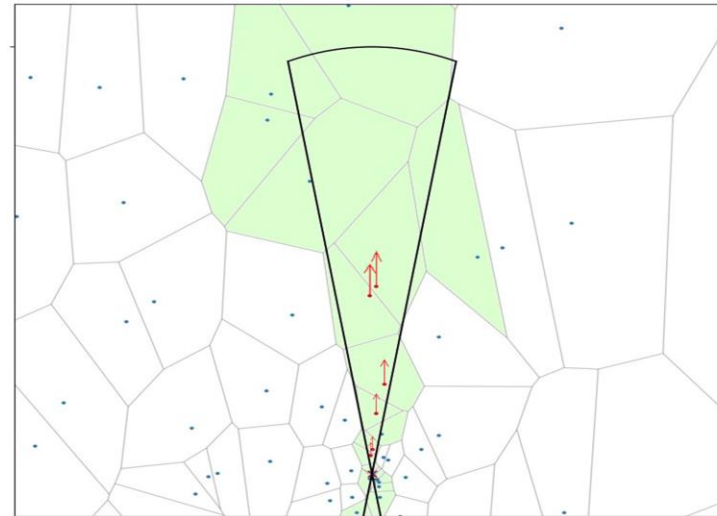
Implementing Jets from Sink Particles in AREPO

N Sansith Hewapathirana^{1,2}, Rowan J Smith²

¹JBCA, Department of Physics and Astronomy, University of Manchester, Oxford Road, Manchester

²School of Physics and Astronomy, University of St Andrews, North Haugh, St Andrews

- A module for AREPO that includes feedback from jets
- Ejects matter from sink particles based on accretion rate
 - *Where a sink particle represent a star forming regions*
- Extra refinement conditions in 2 cones around each sink
 - *To ensure there are always cells within this region*
- Inject momentum into cells within these cones



(Left) A diagram of the cell mesh near the sink. Green cells have extra refinement criteria.

(Right) The actual cells that are within the injection region of the central sink.

