

Notes: Illinois GRMHD

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- Possible applications:
 - BNS
 - BH - NS
 - White Dwarf
 - Accretion disks and jets

- Possible future aspects:
 - Currently only support polytropic equation of state - can be interesting to explore adding further equations of state
 - Primarily designed for studying magnetic fields
 - Adding neutrino transport

- Current Work:
 - Elias - Illinois GRMHD in curvilinear coordinates
 - Changing to Corotating frames

Action Items -

- Push Illinois GRMHD bug fix to ETK Master
- Finish merging with Elias Most's branch
- New Physics:
 - Microphysics - tabulated EOSs
 - Neutrino Transport (leakage -> closure -> raytracing)
 - Radiation Transport (leakage -> closure -> raytracing)
- Full neutron star collision
- Catalog of kilonova initial data

