**Athena++ Objects** MeshBlockTree LogicalLocation loc TimeIntegratorTaskList TaskList MeshBlockTree IntegratorWeight step wghts[MAX NSTEP] Mesh \*pmy mesh \*pparent, \*pleaf[2][2][2] Mesh LogicalLocation \*loclist Task MeshBlock \*pblock IntegratorWeight MeshBlockTree \*tree RegionSize mesh size NeighborBlock PolarNeighborBlock MeshBlock BoundaryValues \*pbval RegionSize Coordinates \*pcoord BoundaryValues EquationOfState \*peos NeighborIndexes MeshBlock \*pmy block Field \*pfield Cartesian LogicalLocation NeighborIndexes ni[56] Hydro \*phydro LogicalLocation loc Cylindrical Mesh \*pmy mesh MeshBlock \*prev, \*next SphericalPolar MeshRefinement \*pmr NeighborBlock neighbor[56] Reconstruction Coordinates ◀ Minkowski PolarNeighborBlock MeshBlock \*pmy\_block MeshBlock \*pmy\_block \*polar\_neighbor\_north, Schwarzschild \*polar neighbor south Reconstruction \*precon MeshRefinement RegionSize block size √ KerrSchild ParameterInput EquationOfState Coordinates \*pcoarsec InputBlock \*pfirst block FaceField coarse\_b\_ MeshBlock \*pmy block GRUser MeshBlock \*pmy\_block FaceField InputBlock **IOWrapper** InputLine \*pline Hydro Field InputBlock \*pnext HydroSourceTerms \*psrc EdgeField e ▶ EdgeField MeshBlock \*pmy\_block FaceField b, b1, ei, wght Outputs MeshBlock \*pmy block OutputType \*pfirst\_type\_ InputLine InputLine \*pnext HydroSourceTerms Hydro \*pmy\_hydro\_ OutputType A contains single instance of B OutputData Internal linked list public declaration \*pfirst\_data\_, OutputParameters + ← HistoryOutput \*plast\_data\_ OutputParameters output\_params √ FormattedTableOutput protected/private OutputType \*pnext\_type Physics doubly linked list declaration ▼VTKOutput ATHDF50utput OutputData I/O tree (AthenaArray excluded) OutputData \*pnext, \*pprev RestartOutput