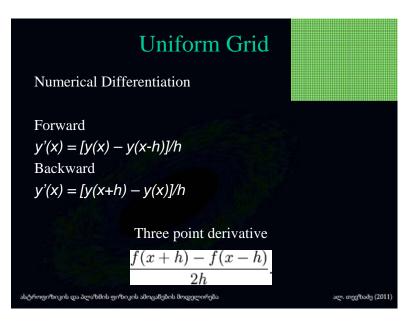
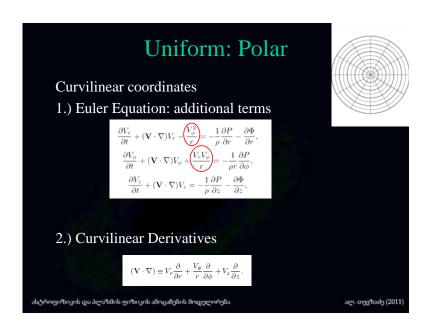
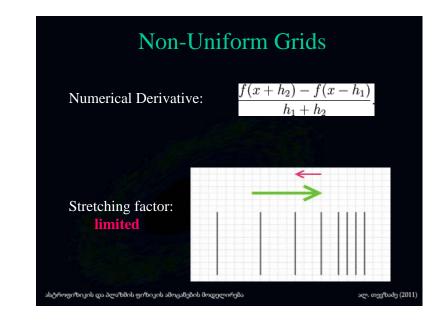
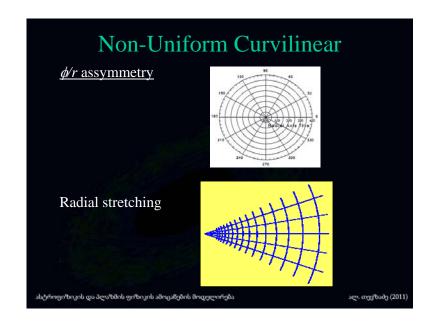


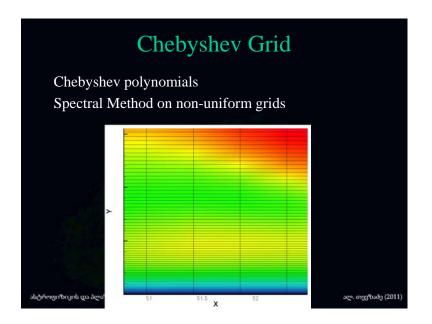
## Grids: Uniform Grids; - Cartesian - Curvilinear Non-Uniform Grids; Irregular Grids; Dynamic Grids: AMR (Adaptive Mesh Refinement)

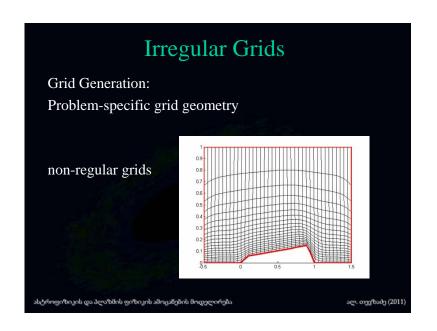


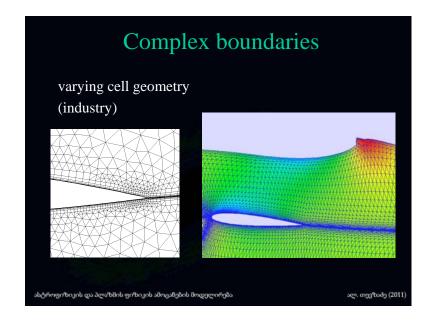


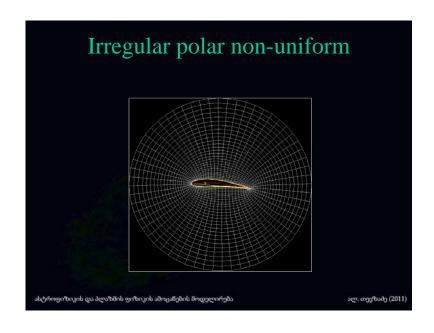


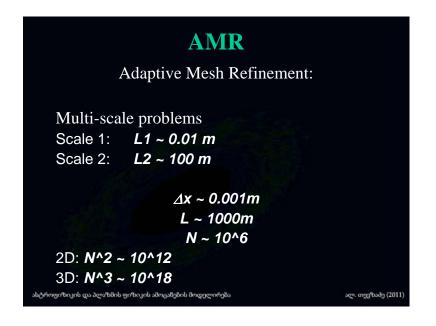




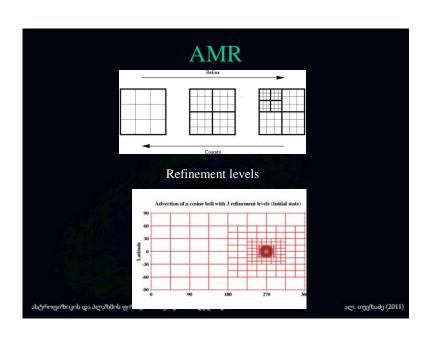


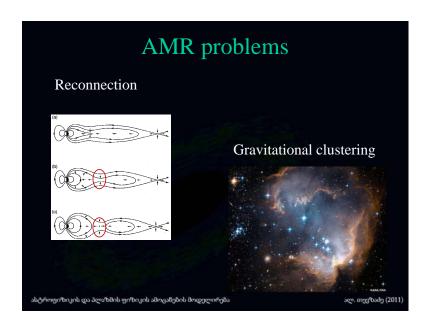


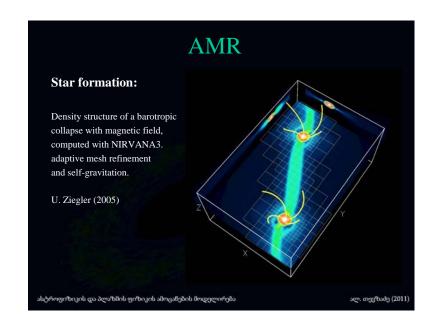


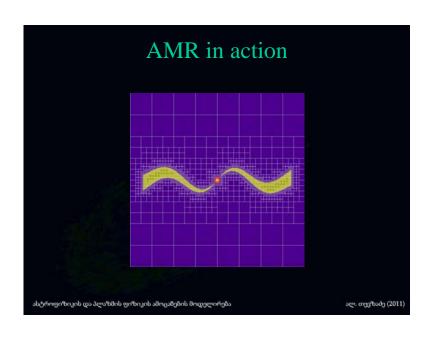


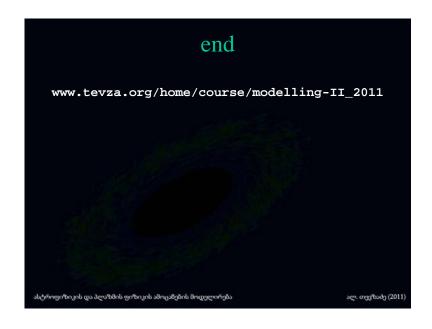
## AMR Dynamic mesh geometry: Adaptation to problem - Magnetic reconnection - Self gravity - Multiscale phenomena











## Static Cartesian Grid (simple, fast) Polar, Spherical (rotation, axial symmetry) Non-Uniform (increasing resolution, static setup) Chebishev (Boundary effects, spectral) AMR (Multiscale problems) Direct comparison: More Complex, More CPU, Less Memory Performance = Balance (CPU, Memory)

ალ. თევზაძე (2011)

ასტროფიზიკის და პლაზმის ფიზიკის ამოცაწების მოდელირება