LECTURE

Pengzi Miao
University of Miami,
Miami, Florida (USA)

Quasi-local energy and isometric embedding of spacelike 2-surfaces
4 lessons of one hour each

The notion of quasi-local energy is a basic subject of study in general relativity. In this course, we will discuss ways of defining the quasi-local energy for a spacelike, closed twosurface, with a focus on the surface Hamiltonian approach.
This approach is naturally tied to the classic problem of isometric embeddings in differential geometry, which we will also discuss.