Isospecrality and Symplectic Homogenization Lorenzo Zanelli

Department of Mathematics "Tullio Levi-Civita", University of Padova, Italy E-mail: lzanelli@math.unipd.it

ABSTRACT

We study the inverse spectral problem for Schrdinger operators in connection to the symplectic homogenization of Hamiltonian systems. This approach provides a way to generalize some results about the spectral limit of quantum integrable systems, as well as to extend symplectic inverse spectral theory beyond the one dimensional setting.