## GLOBAL NORMAL FORMS AND SPECTRAL PROPERTIES FOR PERTURBATIONS OF HARMONIC OSCILLATORS

## T. Gramchev

Dipartimento di Matematica e Informatica, Via Ospedale 72, Cagliari, Italy todor@unica.it

We outline some recent investigations on global normal forms and spectral properties problems second order linear differential operators which might be viewed as perturbations (not necessarily self-adjoint) of multidimensional anisotropic harmonic oscillators  $H = -\Delta + \sum_{j=1}^{n} \omega_j x_j^{2k_j}$ ,  $\omega_j \in \mathbb{C}$ , Re  $\omega_j > 0$ ,  $k_j \in \mathbb{N}$ ,  $j = 1, \ldots, n$ .

The results are obtained in collaboration with G. Tranquilli (Università di Cagliari).