



*The Abdus Salam*  
**International Centre for Theoretical Physics**



**Advanced Workshop on  
"Anderson Localization, Nonlinearity and  
Turbulence: A Cross-Fertilization"**

**ICTP, Trieste, Italy, 23 August - 3 September 2010**

**Antonio GIORGILLI**

Dipartimento di Matematica  
Universita' degli Studi di Milano  
Via Saldini 50  
20133 Milano, Italy

**TITLE:**

**"Dynamics of the Fermi--Pasta--Ulam System"**

ABSTRACT:

Discussion on the problem of equipartition of energy in the FPU system and related models, referring in particular to results available from perturbation theory, i.e., Kolmogorov and Nekhoroshev theory.