Selected Abstracts from Other Physical Review Journals

Abstracts of papers that are published in other Physical Review journals and may be of interest to Physical Review E readers are printed below.

Regular spectra in the vibron model with random interactions. R. Bijker and A. Frank Dipartimento di Fisica, Università degli Studi di Genova, Via Dodecaneso 33, I-16146 Genova, Italy, Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México, Apartado Postal 70-543, 04510 México, DF, México, Centro de Ciencias Físicas, Universidad Nacional Autónoma de México, Apartado Postal 139-B, 62251 Cuernavaca, Morelos, México. (Received 18 December 2001; published 26 March 2002)

The phenomenom of emerging regular spectral features from random interactions is addressed in the context of the vibron model. A mean-field analysis links different regions of the parameter space with definite geometric shapes. The results that are, to a large extent, obtained in closed analytic form provide a clear and transparent interpretation of the high degree of order that has been observed in numerical studies. [Phys. Rev. C **65**, 044316 (2002)]