

Département de Mathématiques d'Orsay



UNIVERSITE PARIS-SACLAY FACULTÉ DES SCIENCES D'ORSAY



Laplacians and wave equations on polyhedral surfaces

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Résumé :Differential operators on polyhedral surfaces are intensively studied during last decades. Many papers are devoted to such topics as spectral theory, determinants, trace formulas etc. Nice properties of such operators are due to the fact that polyhedra are almost everywhere flat; on the other hand, there appear interesting effects caused by the singularities (vertices). In the talk, we present some results concerning various properties of Laplacians and the behavior of solutions to wave equations on polyhedral surfaces.

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