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Determinants of Laplacians on surfaces with singularities

I will talk about certain aspects of determinants of Laplace operators on surfaces. I will consider two settings: surfaces with cusps and funnels, and surfaces with conical singularities.

I will mention some of the results that we obtained for determinants of Laplacians in these two cases, the technical difficulties that appeared there and how we solved them. The results for surfaces with cusps and funnels are joint work with Pierre Albin and Frederic Rochon, and the part about surfaces with conical singularities are joint work with Julie Rowlett.