

# Mathematical Physics Seminar

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## **Perturbing an isoradial triangulation and the effect on its discrete Kaehler operator**

The David-Eynard discrete Kaehler operator is a hermitian operator associated to any finite or infinite triangulation of the plane with the property that it specialises to Kenyon laplacian when the triangulation is infinite an isoradial (with unit radius). In the periodic case the log-determinant of Kenyon's laplacian can be expressed as a weighted sum of edges within the fundamental domain. Together with F. David, we consider the effect of smoothly perturbing the vertex positions of a periodic isoradial triangulation upon this kind of local formula for the log-determinant.

**Thursday, 26.10.2017, 16:00 Uhr**  
**D5-153**