

An introduction to analytic torsion and Quillen metrics

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In this mini-course, we explain basic notions and results concerning analytic torsion and Quillen metrics. We plan to treat the following subjects:

- (1) Determinant of Laplacian
- (2) Determinant of cohomologies
- (3) Quillen metric and its basic properties
- (4) Examples related to automorphic forms