

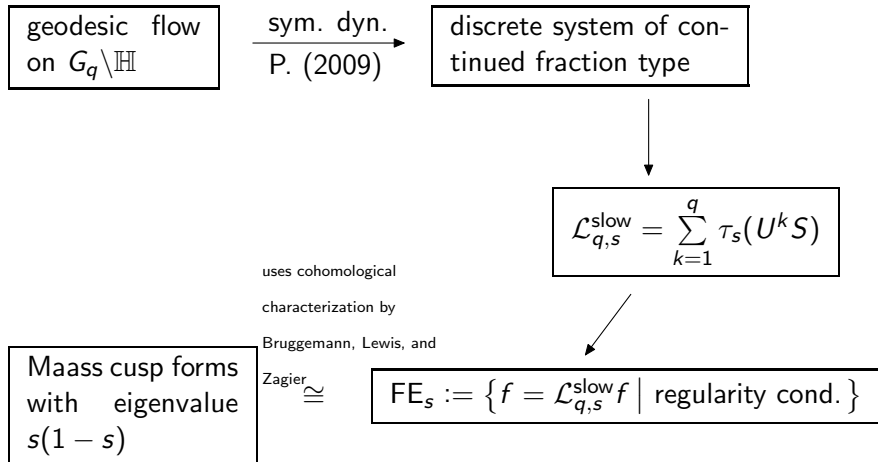
Maass cusp forms for Hecke triangle groups, closed geodesics, and invariant measures

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From geodesics to Maass cusp forms for Hecke triangle groups G_q



From geodesics to Selberg zeta function

geodesic flow
on $G_q \backslash \mathbb{H}$

sym. dyn.

discrete system with associated
nuclear transfer operator

$$\mathcal{L}_{q,s}^{\text{fast}} = \begin{pmatrix} \mathcal{L}_{q,s}^{+, \text{fast}} & 0 \\ 0 & \mathcal{L}_{q,s}^{-, \text{fast}} \end{pmatrix}$$

$$FE_s := \{ f = \mathcal{L}_{q,s}^{\text{slow}} f \mid \text{regularity cond.} \}$$

?

$$Z(s) = \det(1 - \mathcal{L}_{q,s}^{\text{fast}})$$