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Intersections of geodesics on the modular surface

Let α be a compact geodesic segment in the full modular surface, and let C_D be the union of closed geodesics of discriminant D. I'm going to present a proof that the intersection points $\alpha \cap C_D$ become equidistributed along α as $D \to \infty$. I will then discuss how to make the theorem effective. This is a joint work with Naser Talebizadeh Sardari.