

**COLLOQUIUM****Generically τ -reduced irreducible components for
Jacobian algebras coming from surfaces
with non-empty boundary****Professor Chris Geiss**
UNAM**Abstract**

This is a report on joint work in progress with D. Labardini-Fragoso and J. Wilson. For each tagged triangulation T of a punctured surface with non-empty boundary the associated quiver $Q(T)$ the Labardini potential $W(T)$ is up to (weak) right equivalence the unique non-degenerate potential. The corresponding Jacobian algebra $\Lambda_T := P(Q(T), W(T))$ is finite dimensional and tame. By work of Penner and Plamondon there is canonical bijection π between the generically τ -reduced irreducible components of the representation varieties for Λ_T and the laminations of the surface, which intertwines generic g -vectors with shear coordinates. We show that this bijection π is compatible with the canonical decomposition on the one side and connected components on the other side. A key step in our proof is to show our result first for triangulations of signature 0, since in that case the corresponding Jacobian algebras are skewed gentle.

Date:	November 15, 2022 (Tuesday)
Time:	10:00 - 11:00am
Venue:	ZOOM: https://hku.zoom.us/j/ Meeting ID: 923 7075 8338 Password: 646722

All are welcome