

# Infinite sequences of mutually non-conjugate surface braids representing same surface-links

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**Abstract.** In this talk, we give an infinite sequence of mutually non-conjugate surface braids with same degree representing the trivial surface-link with at least two components and a pair of non-conjugate surface braids with same degree representing a spun  $(2, t)$ -torus knot for  $t \geq 3$ . To give these examples, we introduce new invariants of conjugacy classes of surface braids via colorings by Alexander quandles or core quandles of groups.