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The ADE conjecture for hyperbolic links

The *ADE* links are obtained as the boundaries of the oriented surfaces obtained by plumbing positive Hopf bands according to one of the trees determined by the simply laced Dynkin diagrams A_m, D_m, E_6, E_7, E_8 . The *ADE* conjecture characterises these links among fibred, strongly quasipositive links in terms of their cyclic branched covers. In this talk we use pseudo-Anosov flows to verify that the fundamental groups of the cyclic branched covers of hyperbolic, fibred, strongly quasipositive links are left-orderable, thus verifying the hyperbolic case of the conjecture.

This is joint work with Cameron Gordon and Ying Hu.