

KNOTS WITH GIVEN FINITE TYPE INVARIANTS AND CONWAY POLYNOMIAL

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In this talk, we show that for any given pair of a natural number n and a knot K , there exist infinitely many knots J_m ($m = 1, 2, \dots$) which satisfy the following: (1) for any v_k ($k = 1, 2, \dots, n$), $v_k(J_m) = v_k(K)$ and (2) $\nabla_{J_m}(z) = \nabla_K(z)$, where v_k is a Vassiliev invariant of order k and $\nabla_K(z)$ is the Conway polynomial of K .

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