Speaker:	Wong, Peter
Title:	Coincidence theory for infra-solvmanifolds
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Abstract: Let $f, g : X \to Y$ be maps between two closed oriented *n*-manifolds. When Y is an infra-solvmanifold, necessary and sufficient conditions are given for the equality between the Nielsen number N(f,g) and the Reidemeister number R(f,g). The proof makes use of certain residual property of virtually polycyclic groups and the following factorization result: let π be a finitely generated torsion-free virtually polycyclic group. For any finitely generated group G, there exists a finitely generated torsion-free virtually polycyclic group \bar{G} and an epimorphism $\epsilon : G \to \bar{G}$ such that for any homomorphism $\varphi : G \to \pi$, there exists $\bar{\varphi} : \bar{G} \to \pi$ such that $\varphi = \bar{\varphi} \circ \epsilon$.