

ALGEBRA SEMINAR

Is it normal to be depth two?

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ABSTRACT: Depth two and finite depth are notions that originally arose in the classification of subfactors. They were extended to Frobenius extensions by Nikshych and the speaker. Szlachanyi and the speaker redefined depth two for subrings, which started a Galois theory for bialgebroids and Hopf algebroids. This turns out to be closely related to normal subgroups, normal Hopf subalgebras and Rieffel's normal subrings. The first two are certainly examples of depth two. The converse of whether a depth two Hopf subalgebra is normal, is an interesting open question.

Monday, November 20, 2006, 1:40 – 2:30 pm,
Wachman 617