

Mathematics Department Colloquium

Organizer: Maciej Zworski

Thursdays, 4:10–5:00pm, 60 Evans

February 3 **Charles Fefferman**, Princeton University

Whitney's extension problem and its variants.

The talk will answer the following questions: Let $f : E \rightarrow \mathbf{R}$, with E a subset of \mathbf{R}^n . How can one tell whether f extends to a C^m function F on all of \mathbf{R}^n ? If F exists, how small can we make its C^m norm? Can F be made to depend linearly on f ?