

# COLLOQUIUM

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## REPRESENTATIONS OF COVERING GROUP

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12-5-13

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NECKERS 156 | TIME: 3:00PM

RECEPTION IMMEDIATELY FOLLOWING IN THE MATH LIBRARY.

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Let  $F$  be a  $p$ -adic field, and let  $G$  be the group of  $F$ -points of an algebraic group defined over  $F$ . We will talk about  $n$ -fold topological coverings of  $G$ . In general, these groups are not algebraic. Still, we can use the structure of  $G$  to obtain important information about the structure of covering groups. This is a basis for developing representation theory for covering groups. Important examples of covering groups are metaplectic groups, which are  $n$ -fold covers of  $GL(k, F)$ .