

**Speaker:** Matthias Johannes Strauch

**Title:**  $p$ -adic Banach representations of  $\mathrm{SL}(2, \mathbb{Q}_p)$

**Abstract:** We explain how to deduce a classification of admissible unitary representations of  $\mathrm{SL}(2, \mathbb{Q}_p)$  on Banach spaces over (finite extensions of)  $\mathbb{Q}_p$  from the  $p$ -adic Langlands correspondence for  $\mathrm{GL}(2, \mathbb{Q}_p)$ . The latter was established by Colmez and Colmez-Dospinescu-Paskunas. When the representation is “de Rham”, we relate the corresponding L-packet to the L-packet of associated smooth representations. When compared to the case of smooth representations, interesting similarities as well as dissimilarities can be observed.