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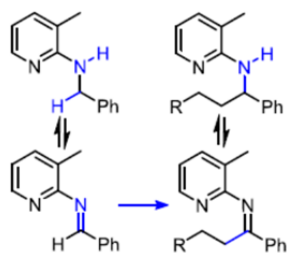
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Monday Dec 14<sup>th</sup>  
Auditorium Astier 11h

Prof. **Michael Schnürch** (TU Wien)

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*Mechanistic Investigations and Kinetic Modelling of the Direct Alkylation of Benzylic Amines*



**Abstract.** A Rh(I)-catalyzed direct C-H alkylation of benzylic amines with alkenes co-catalyzed by  $K_2CO_3$  was studied as a benchmark reaction to gain insight into the main kinetic influence factors associated with heterogeneous bases in metal-catalyzed reactions and to elucidate one of the associated underlying reaction mechanisms. Even though formally an  $C(sp^3)$ -H activation, this reaction actually proceeds via imine intermediates and, hence, via  $C(sp^2)$ -H activation.

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