Monday Dec 14th
Auditorium Astier 11h

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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 K₂CO₃ 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(sp³)–H activation, this reaction actually proceeds via imine
intermediates and, hence, via C(sp²)–H activation.