Conference Pathwise Stochastic Analysis and Applications CIRM (Marseille, France) — March 8-12, 2021 Organized by GdR TRAG (INSMI-CNRS)

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## Paracontrolled calculus and regularity structures

We prove a general equivalence statement between the notions of models and modelled distributions over a regularity structure, and paracontrolled systems indexed by the regularity structure. The construction of a modelled distribution from a paracontrolled system is explicit, and takes a particularly simple form in the case of the regularity structures introduced by Bruned, Hairer and Zambotti for the study of singular stochastic partial differential equations.

This talk is based on a joint work with Ismaël BAILLEUL (Université Rennes 1).