IFC condition for infinite-dimensional stochastic differential equations.

Hirofumi Osada (Kyushu University)

IFC condition is one of a key ingredient of the method solving infinite-dimensional stochastic differential equations with symmetry due to the speaker and Tanemura. We present a sufficient condition such that a weak solution of such stochastic differential equations satisfies the IFC condition. If the solution arises from a quasi-regular Dirichlet form, then the IFC condition is verified easily. The point of this talk is proving the IFC condition without using the Dirichlet form theory. This result is crucially used in the proof of the uniqueness of Dirichlet forms.