



The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Geometry

On Feynman Geometry

By

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Abstract

We introduce a notion of Feynman geometry on which quantum field theories could be properly defined. A strong Feynman geometry is a geometry when the vector space of A_∞ structures is finitely dimensional. A weak Feynman geometry is a geometry when the vector space of A_∞ structures is infinite dimensional while the relevant operators are of trace class. We construct families of Feynman geometries with "Continuum" as their limit.

Date : Friday, 3 November, 2017

Time: 11:00a.m.-12:00noon

***Venue: Room 5508, Academic Building
(near Lifts 25&26), HKUST***

All are welcome!