

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

Number Theory Seminar

Breuil-Kisin modules and integral p -adic Hodge theory

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Abstract

We construct a category of Breuil-Kisin G_K -modules to classify integral semi-stable Galois representations. The theory can be regarded as the algebraic avatar of the integral p -adic cohomology theories of Bhatt-Morrow-Scholze and Bhatt-Scholze.

Date:	November 23, 2021 (Tuesday)
Time:	4:30 - 5:30pm (Hong Kong Time)
Venue:	ZOOM: https://hku.zoom.us/j/
	Meeting ID: 999 0463 7074
	Password: 483015

All are welcome