

# SEMPARIS – Séminaires en région parisienne

<http://string.lpthe.jussieu.fr/semparis/>

**TBA**

**Jeudi 16 Janvier 2025, 11 :00**

IHES, Amphithéâtre Léon Motchane

Domaines : math

Titre : *Frobenius Structure on Theta Connections and Epipelagic Langlands Parameters*

Orateur : **Daxin Xu** ( **Morningside Center of Mathematics, Chinese Academy of Sciences & IHES** )

Résumé : *In this talk, we first review the local monodromy at infinity of the Bessel  $F$ -isocrystals following Dwork, Sperber. Then we explain a generalization of this story for theta connections. Theta connections are certain rigid connections over  $P^1$  minus two points, related to epipelagic representations under the geometric Langlands correspondence. As an application, we verify a conjecture of Reeder-Yu on the epipelagic Langlands parameters under some technical conditions. The talk is based on my joint work with Xinwen Zhu and a work in progress with Lingfei Yi.*

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