

Stability conditions for coherent systems on integral curves

Thursday, 9 October 2025 09:30 (1 hour)

In this talk, we briefly introduce stability conditions, which we apply to the category of coherent systems on an integral curve C .

We define Bridgeland stability conditions on its derived category. We also study the semistability of certain objects with respect to these conditions. We use some results we got to address the problem of finding bounds for the dimension of the space of global sections of torsion-free sheaves on C . It's a joint work with Marcos Jardim and Leonardo Roa-Leguizamon.

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