

## **New connections between numerical semigroups and integer partitions**

*Friday, 30 September 2022 13:30 (50 minutes)*

Numerical semigroups are cofinite additive submonoids of the natural numbers motivated by the study of linear Diophantine equations. Through a simple injection to Young diagrams, researchers have used known results about numerical semigroups to answer questions about core partitions. In this talk, we will explore connection between integer partitions and numerical semigroups with a focus on classifying that appear in the image of the injection from numerical semigroups. This talk is based on joint work with Hannah Burson and Simone Sisneros-Thiry.

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**Session Classification:** Session 1