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## MATHEMATICS DEPARTMENT 25TH YEAR SEMINARS

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# Numerical Semigroups, Apery table and Hilbert functions

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**Abstract:** In this talk, I will first introduce the concept of Apery table of a numerical semigroup introduced by Cortedellas and Zarzuela (Tangent cones of numerical semigroup rings. Contemp. Math. 502, 45–58 (2009)). After presenting some open problems about Hilbert functions of local rings, I will give some partial results in the case of local rings associated to numerical semigroups.

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**Date:** December 10, 2021; Friday

**Time:** 16:00

**Place:** Zoom



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