

Why **PROPER INT** is not equal **UNIT INT**?

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(joint work with Martin Balko and Yota Otachi)

We discuss a recent development concerning the classes of proper and unit interval graphs. Probably the most known result about these classes is Robert's Theorem which states that these two classes are equal, i.e., **PROPER INT** = **UNIT INT**. This is also the reason why unit interval graphs were never much studied since it is much easier to work with combinatorially simpler structure of proper interval graphs. In this talk, we show that this equality is only one part of a big picture, and from a certain other perspective these classes are vastly different.