# The birational geometry of tropicalization

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In 2005 J. Tevelev proved that the tropicalization of a closed subvariety $Y$ of a $n$-dimensional torus induces a 'good' compactification of $Y$ in a toric variety. We will show how this compactification reconstructs the notion of tropical line bundle introduced by C. Torchiani on tropical cycles, starting from the original variety and giving a birational nature to the whole structure.
We will also give a connection to the theory of Newton-Okounkov bodies.
Part of the work is with C. Novelli.