

Independence around \aleph_ω

LAJOS SOUKUP

HUN-REN Alfréd Rényi Institute of Mathematics

`soukup@renyi.hu`

In recent decades, several topological and set-theoretical statements have been shown to be independent of ZFC by demonstrating that they hold under $\text{GCH} + \square_{\aleph_\omega}$, while their negations follow from GCH and a suitable version of the Chang Conjecture, — specifically, the principle $(\aleph_{\omega+1}, \aleph_\omega) \twoheadrightarrow (\aleph_1, \aleph_0)$.

In this talk, we will formulate several such statements and investigate the possible implications between these statements.