

Plenarvortrag

PV V Di 9:45 Plenarsaal

On the tension between mathematics and physics — ●MIKLOS

REDEI — London School of Economics and Munich Center for Mathematical Philosophy, London and Munich, United Kingdom and Germany

Because of the complex interdependence of physics and mathematics

their relation is not free of tensions. The talk looks at how the tension has been perceived and articulated by some physicists, mathematicians and mathematical physicists. Some sources of the tension are identified and it is claimed that the tension is both natural and fruitful for both physics and mathematics. An attempt is made to explain why mathematical precision is typically not welcome in physics.