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Fourier multipliers and stability of semigroups

In this talk I will present some new $L^p - L^q$ -Fourier multiplier theorems which hold for operator-valued symbols under geometric restrictions on the underlying Banach spaces such as (Fourier) (co)type. The proofs are based on function space techniques. I will show how the multiplier theorems can be applied to obtain new stability results for solutions to PDEs. This is joint work with Jan Rozendaal.