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### **Limit interpolation methods**

The real interpolation method  $(A_0, A_1)_{\theta, q}$  is a very useful tool not only in harmonic analysis, function spaces and partial differential equations but also in other areas of mathematics. Usually  $(A_0, A_1)_{\theta, q}$  is defined with  $\theta$  in the open interval  $(0, 1)$  but limiting methods where  $\theta = 0, 1$  are also important in a number of problems related to function spaces. When  $\theta = 0, 1$  the theory has significant changes in comparison with the classical case  $0 < \theta < 1$ .

In this talk we will review some recent results on the limiting methods, which are part of joint works with Luz M. Fernández-Cabrera, Thomas Kühn, Mieczysław Mastyło and Tino Ullrich.