

Scales of Banach spaces, theory of interpolation and their applications

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Scales of Banach Spaces and interpolation spaces play an important role in modern partial differential equations. The aim of this presentation is to show the construction of scale of Banach space and different methods to construct interpolation space. Furthermore, their properties will be demonstrated, together with the theorem containing conditions which guarantee that spaces on the scale are equal to the interpolation spaces. In the end, the applications to solve some partial differential equations will be presented.

References

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