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## **The Fekete–Szegő problem for spirallike mappings and non-linear resolvents in Banach spaces**

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### **Abstract**

We study the Fekete–Szegő problem on the open unit ball of a complex Banach space. Namely, the Fekete–Szegő inequalities are proved for the class of spirallike mappings relative to an arbitrary strongly accretive operator, and some of its subclasses. Next, we consider families of non-linear resolvents for holomorphically accretive mappings vanishing at the origin. We solve the Fekete–Szegő problem over these families.

Based on the join work with Mark Elin.