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**99d:30021**

**Koepf, Wolfram** (D-KOZU); **Schmersau, Dieter** (D-KOZU)

**Weinstein's functions and the Askey-Gasper identity. (English summary)**

*Integral Transform. Spec. Funct.* **5** (1997), *no. 3-4,* 227–246.
30C50 (30C45 33C45)



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The authors show how a variant of the Askey-Gasper identity can be deduced by a straightforward examination of Weinstein's functions which are intimately related with a Löwner chain of the Koebe function. The authors also prove that Weinstein's functions can be represented as Jacobi polynomial sums and obtain the Askey-Gasper inequality and identity for Weinstein's functions. Finally, the authors give a simple method to generate the explicit representation of Weinstein's functions.

**Reviewed** by *Shusen Ding*