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### **MATH3093 - Fourier Analysis - 2017/18 | CUHK Mathematics**

Hermite functions - a solution to a Stein and Shakarchi problem Peter Haggstrom [mathsatbondibeach@gmail.com](mailto:mathsatbondibeach@gmail.com) May 11, 2018 1 Introduction In Eli Stein and Rami Shakarchi's Fourier Analysis textbook ( [6], page 173] there is an extensive problem on Hermite functions ( the pronunciation of 'Hermite' is given here: [. gotohaggstrom.com/Hermite.mov](http://gotohaggstrom.com/Hermite.mov) ).

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