

True story

A few years ago my daughter took a break from her usual question, 'Dad, what is your favourite colour?' and asked instead, '**What is your favourite shape?**' I was floored! 'What a wonderful question; my favourite shape is Hilbert space!' 'What does it look like?' she asked.

My answer: 'I don't know! But every day when I go to work, that's what I think about.' What I was speaking of, of course, is the geometry of quantum-state space. It is as much a mystery today as it was those years ago, and maybe more so as we learn to focus on its most key and mysterious features. This **book**, the worn first-edition of which I've had on my shelf for 11 years, is the indispensable companion for anyone's journey into that exotic terrain. Beyond all else, I am thrilled about the inclusion of two new chapters in the new edition, one of which I believe goes to the very heart of the meaning of quantum theory.'

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