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Dusa McDuff* (dusa@math.columbia.edu), Mathematics MC4410, Columbia University, 2990 Broadway, New York, NY 10027. *Symplectic Topology Today: Embedding ellipsoids and Fibonacci numbers.*

This will concentrate on the question of when one four dimensional ellipsoid embeds symplectically into another, a problem that has the virtue of having a complete answer. The solution when the target is a ball gives rise to an interesting capacity function worked out by McDuff–Schlenk, whose definition involves continued fractions and the Fibonacci numbers. The relevant combinatorics have other interesting applications, notably to the calculation of the number of integer points in rational affine triangles. (Received September 17, 2013)