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Steradian

National Cancer Institute

Source

National Cancer Institute. *Steradian*. NCI Thesaurus. Code C42544.

A SI derived unit of solid angle measurement. One steradian is the solid angle that, having its vertex in the center of a sphere, cuts off an area on the surface of the sphere equal to that of a square with sides of length equal to the radius of the sphere. It is equal to 0.25 of the solid angle around a point, 0.079 58 sphere, 0.159 16 hemisphere, 0.636 6 spherical right angle, 3,282.8 square degrees. The solid angle corresponding to all of space being subtended is 4π steradians.