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Kouki Taniyama* (taniyama@waseda.jp), Shimouma 6-9-14-201, Setagaya-ku, Tokyo, 154-0002, Japan. *Totally close spatial embeddings of a graph.*

Two spatial embeddings of a finite graph are said to be totally close if they are not ambient isotopic and for any type of crossing change there exists a crossing change of that type from one to another. Here a type of crossing change is a triple (edge, edge, crossing-sign) that specifies the edges involved in a crossing change and the crossing-sign of that crossing. We show that a finite graph without free vertices has two totally close spatial embeddings if and only if the graph is abstractly planar and contains no pair of disjoint cycles. (Received August 31, 2015)