Strong Embedding of HP-Graphs on Surface with Higher Genus

In 1990, Bondy posed the small circuit double cover (SCDC) conjecture: Every 2-connected graph ha
C) with the number of circuits less than $|V|$ (the order of the vertex set V). The strong embedding conjec
ected graph has a strong embedding on some surfacein which the boundary of each face is a circuit. In this p
e graph which has a strong embedding on the projective plane with one face of valence $|V|$ and the other fa
oved that the HP-graph has a strong embedding with $|V| -1$ or less faces on some surface, which confirms
d the strong embedding conjecture.

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