1073-05-205 **Cun-Quan Zhang*** (cqzhang@math.wvu.edu), Department of Mathematics, WVU, Morgantown, WV 26506-6310. Strong embedding of semi-Petersen-minor free graph. Preliminary report.

Let P_{10} be the Petersen graph, and P_{10}^- be the graph obtained from P_{10} by contracting one edge. It is proved by Alspach and Zhang that every bridgeless cubic P_{10} -minor free graph has a strong embedding on some surface. For bridgeless graphs without the regularity requirement, it was proved by Zhang that every K_5 -minor free graph has a strong embedding on some surface. In this paper, this result is generalized for graph without P_{10}^- -minor. (Received August 01, 2011)