1077-05-2284   **Wenliang Tang*** (`wtang1@mix.wvu.edu`), Department of Mathematics, West Virginia University, Morgantown, WV 26505, **Erling Wei**, Department of Mathematics, Renmin University of China, Beijing, Beijing 100872, and **Cunquan Zhang** (`cqzhang@math.wvu.edu`), Department of Mathematics, West Virginia University, Morgantown, WV 26505. *Strong Circuit Double Cover Conjecture in Special Cubic Graphs.* Preliminary report.

Let G be a bridgeless cubic graph and C is any given circuit in G. It was conjectured by Seymour that we can find a family $\mathcal{F}$ of circuits containing C such that every edge of G is covered exactly by two members of $\mathcal{F}$. This is the well-known *Strong Circuit Double Cover Conjecture*, a stronger version of the famous *Circuit Double Cover Conjecture*.

It was proved by Herbert Fleischnera and Roland Häggkvistb that the SCDC conjecture is true if $G\backslash V(C)$ has a Hamilton path $P = v_1 \cdots v_t$ such that v_1 is adjacent to some vertex of C. The conjecture remains open if v_1 is not adjacent to any vertex of C. In this paper we verify the conjecture if v_1 is not adjacent to any vertex of C and P is of order at most 23. (Received September 22, 2011)