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Dong Ye* (dong.ye@mtsu.edu), Department of Mathematical Sciences, Middle Tennessee State University, Murfreesboro, TN 37132. *Spanning subgraphs and cycle covering.*

The well-known Cycle Double Cover Conjecture says that every bridgless graph has a family of cycles which cover every edge twice. By Fleischner's splitting lemma, it suffices to prove the Cycle Double Cover Conjecture for all 2-edge-connected cubic graphs. If a 2-edge-connected cubic graph with a nice spanning subgraph, then it has a cycle double cover. In this talk, I will talk the connections between the spanning subgraphs and cycle covers and some recent results. (Received July 28, 2014)