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Neal Bushaw* (neal@asu.edu), **Andrzej Czygrinow** and **Jangwon Yie**. *The Even Cycle Spectrum of Dense Graphs*.

Faudree, Gould, Jacobson and Magnant conjectured that any two connected graph with minimum degree at least d contains even cycles of at least $d - 1$ different lengths; if the graph is non-bipartite, then it should also contain odd cycles of at least d different lengths. We prove a very strong form of this conjecture in the case of bipartite, dense graphs. This is joint work with Andrzej Czygrinow and Jangwon Yie. (Received February 05, 2017)