1126-05-157 **Zoltán Füredi**, Alfréd Rényi Institute, **Alexandr Kostochka**, University of Illinois at Urbana-Champaign, **Ruth Luo*** (ruthluo2@illinois.edu), University of Illinois at Urbana-Champaign, and **Jacques Verstraete**, University of California San Diego. *On the number of edges and other subgraphs in graphs without long cycles.*

We consider two classical theorems for graphs without long cycles. The first theorem, due to Erdős, provides an upper bound for the number of edges in an n-vertex graph with minimum degree d and no hamiltonian cycle. The second theorem is Kopylov's strengthening of the Erdős–Gallai theorem for cycles and paths. It gives an upper bound for the number of edges in a 2-connected n-vertex graph with circumference less than k. In this talk we present stability versions of both theorems as well as generalizations in which we maximize the number of other fixed subgraphs in a graph without long cycles. (Received January 10, 2017)