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SMALL CIRCUMFERENCE AND TRACEABLE GRAPHS

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Graphs with a small circumference may have some good properties. For example, it is known that every 3-edge-connected graph with circumference at most 8 has a spanning closed trail, which may be used to determine those forbidden pairs that guarantee 3-connected subgraphs to be hamiltonian, and so on. In this talk, we shall make a survey on this topic. In particular, we shall present some results we got recently.