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*On the hamiltonicity of line graphs of locally finite, 6-edge-connected graphs*

Diestel and Kuhn's construction of the cycle space of an infinite graph has enabled several results on Hamilton cycles in finite graphs to be extended to locally finite graphs. We consider the result that the line graph of a finite 4-edge-connected graph is hamiltonian. We prove a weaker version of this result for infinite graphs: The line graph of locally finite, 6-edge-connected graph with a finite number of thin ends is hamiltonian.