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Hendry's conjecture holds for spider intersection graphs

Hendry conjectured in 1990 that for a non-Hamiltonian cycle C in a Hamiltonian chordal graph, there exists a cycle C' such that $V(C) \subseteq V(C')$ and $|V(C')| = |V(C)| + 1$; the conjecture is open. A *spider* is a subdivision of a $K_{1,r}$, $r \geq 0$. A *spider intersection graph* is the intersection graph of subtrees of a spider. We prove Hendry's conjecture for the class of spider intersection graphs. This result extends previously known results for interval graphs and split graphs. (Joint work with Atif Abueida and Arthur Busch)