

On the least eigenvalue of cactuses

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A graph G is defined to be cactus if and only if any two of its cycles have at most one common vertex. We consider the least eigenvalue of cactuses. Among all of the connected cactuses with n vertices and k cycles we determine a unique graph whose least eigenvalue is minimal. We also explore connected cactuses with n vertices and among them, we find a unique graph whose least eigenvalue is minimal.