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On 12-regular nut graphs

A nut graph is a simple graph whose adjacency matrix is singular with 1-dimensional kernel and corresponding eigenvector with no zero elements. For each $d \in \{3, 4, \dots, 11\}$ are known all values n for which there exists a d -regular nut graph of order n . In the talk, we consider all values n for which there exists a 12-regular nut graph of order n . (This is a joint work Nino Bašič and Martin Knor.)