```matlab
function tensorEntropy = entropyk(edgeSet, numNodes)

% Compute the tensor entropy for k-uniform hypergraphs
% edgeSet is a m by k matrix such that each row is a hyperedge
% numNodes is an integer
% Examples:
%           e = entropyk([1 2 3; 2 3 4; 3 4 5], 5)
%           e = entropyk([2 3 5; 6 7 8; 5 8 9; 2 6 8], 10)
% by Can Chen, Rahmy Salman

adjacencyTensor = hypergraphk(edgeSet, numNodes);
degreeTensor = degreek(edgeSet, numNodes);
laplacianTensor = degreeTensor-adjacencyTensor;

laplacianUnfold = reshape(laplacianTensor, numNodes, numNodes^2);

singularValues = svd(laplacianUnfold, 'econ');
normalizedValues = singularValues./sum(singularValues);
normalizedValues = normalizedValues(normalizedValues > 0);
tensorEntropy = -sum(normalizedValues.*log(normalizedValues));
```

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