On a Class of Signless Laplacian Integral Multigraphs

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Of increasing interest in spectral Graph Theory has been the study of the signless Laplacian matrix. In Laplacian Integral Multigraphs [Heinig and Saccoman, Congressus Numerantium, Vol. 212, (2012), pp. 131-143] and Laplacian Integral Multigraphs II [O’Connor and Saccoman, Congressus Numerantium, Vol. 223, (2015), pp. 175-185], multigraphs that are underlying threshold and have integral Laplacian spectra were presented. We present a class of these graphs that are also signless Laplacian integral, and a formula for the spectra of other multigraphs of this type.

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