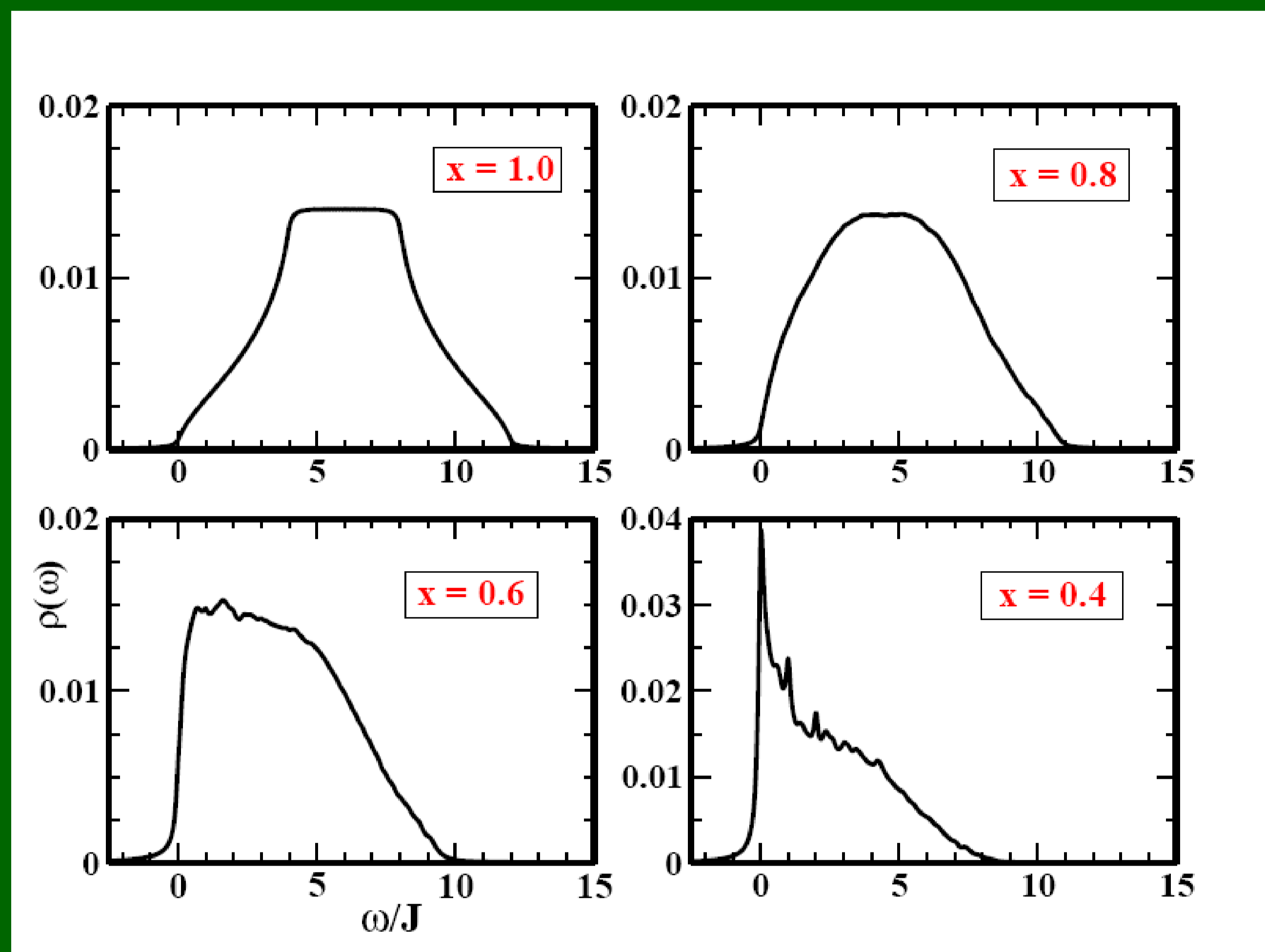


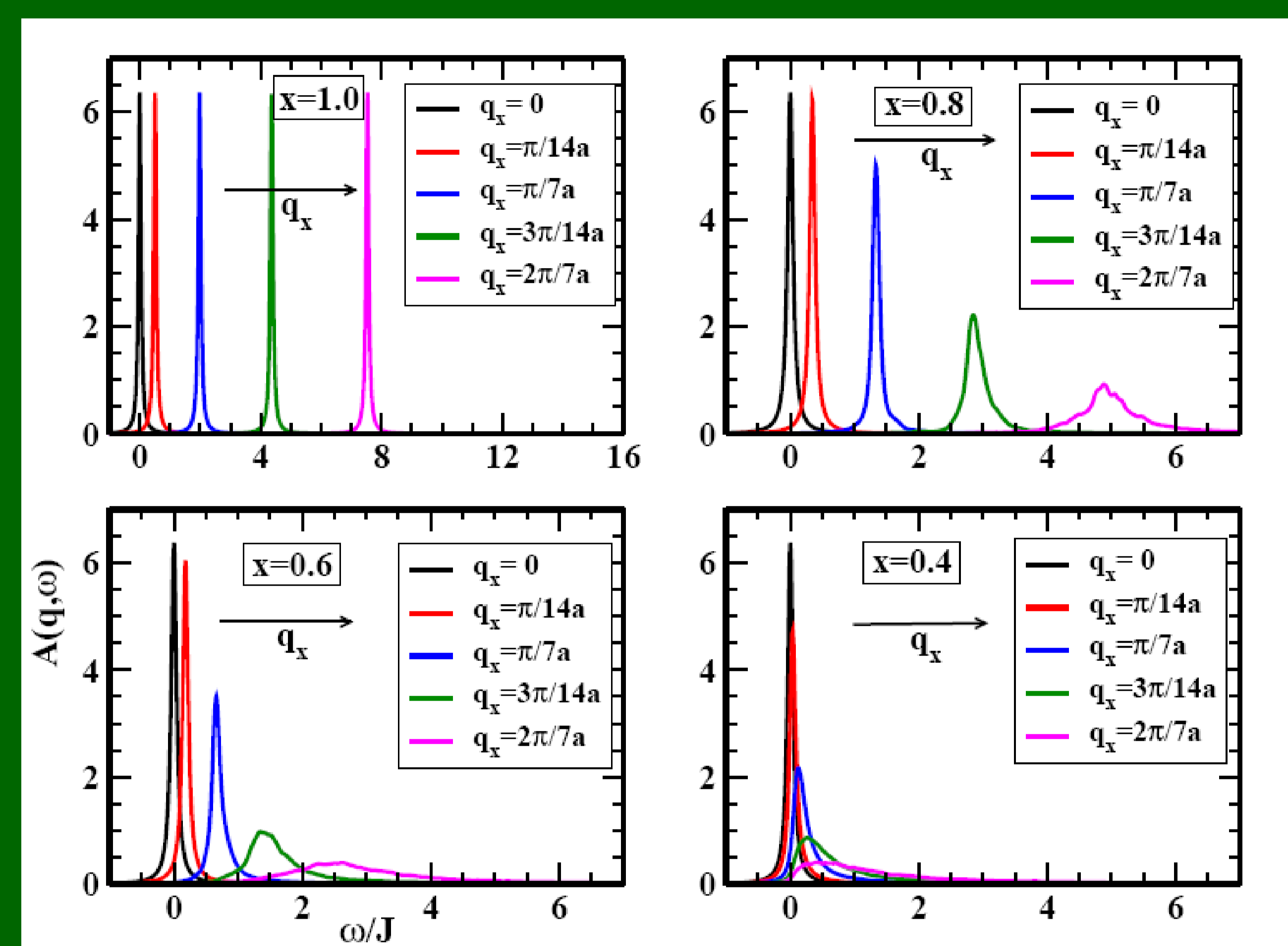
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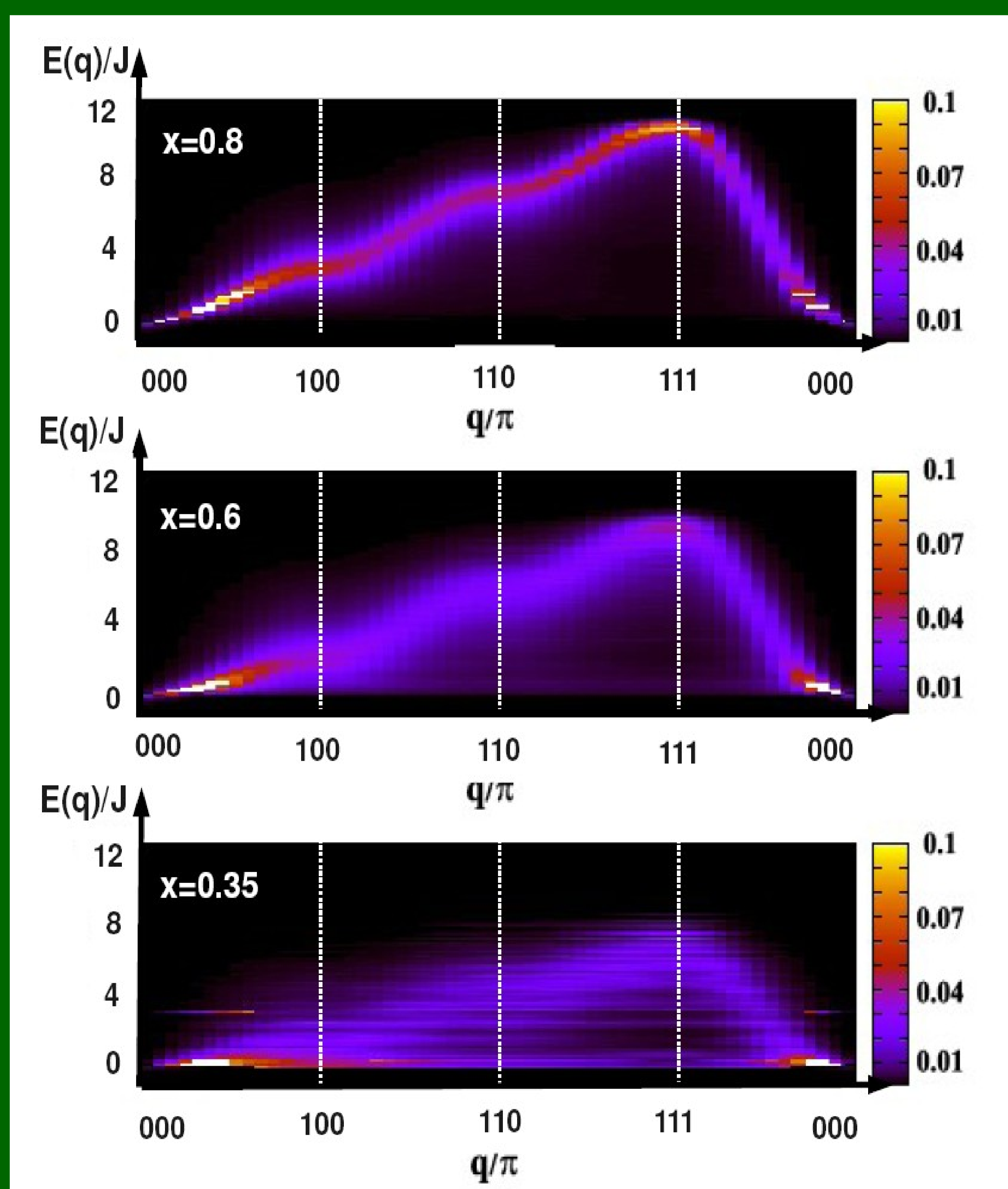
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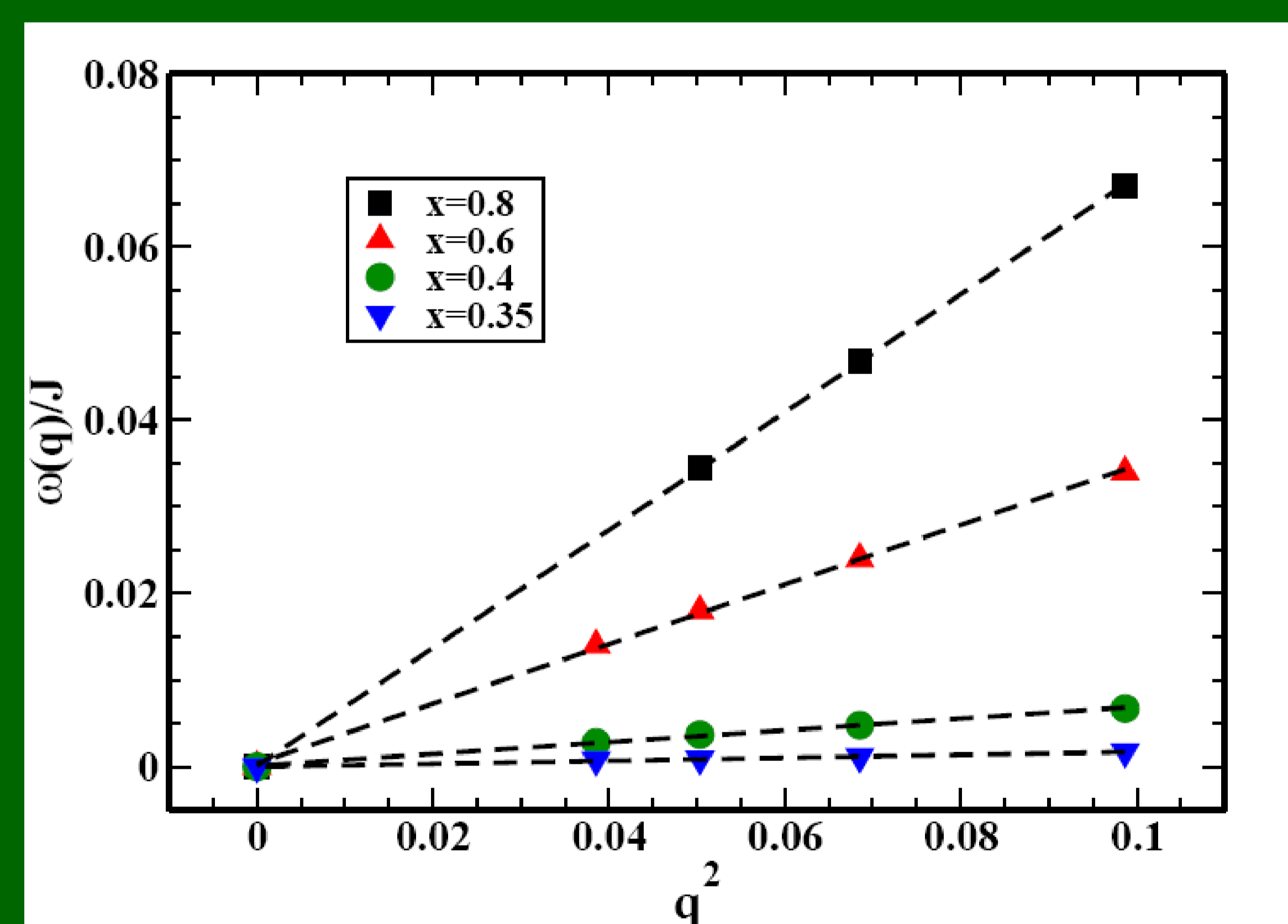
Magnon density of states $\rho(\omega)$ as a function of the energy ω for different concentration of magnetic impurities x . The energy axis is in ω/J .



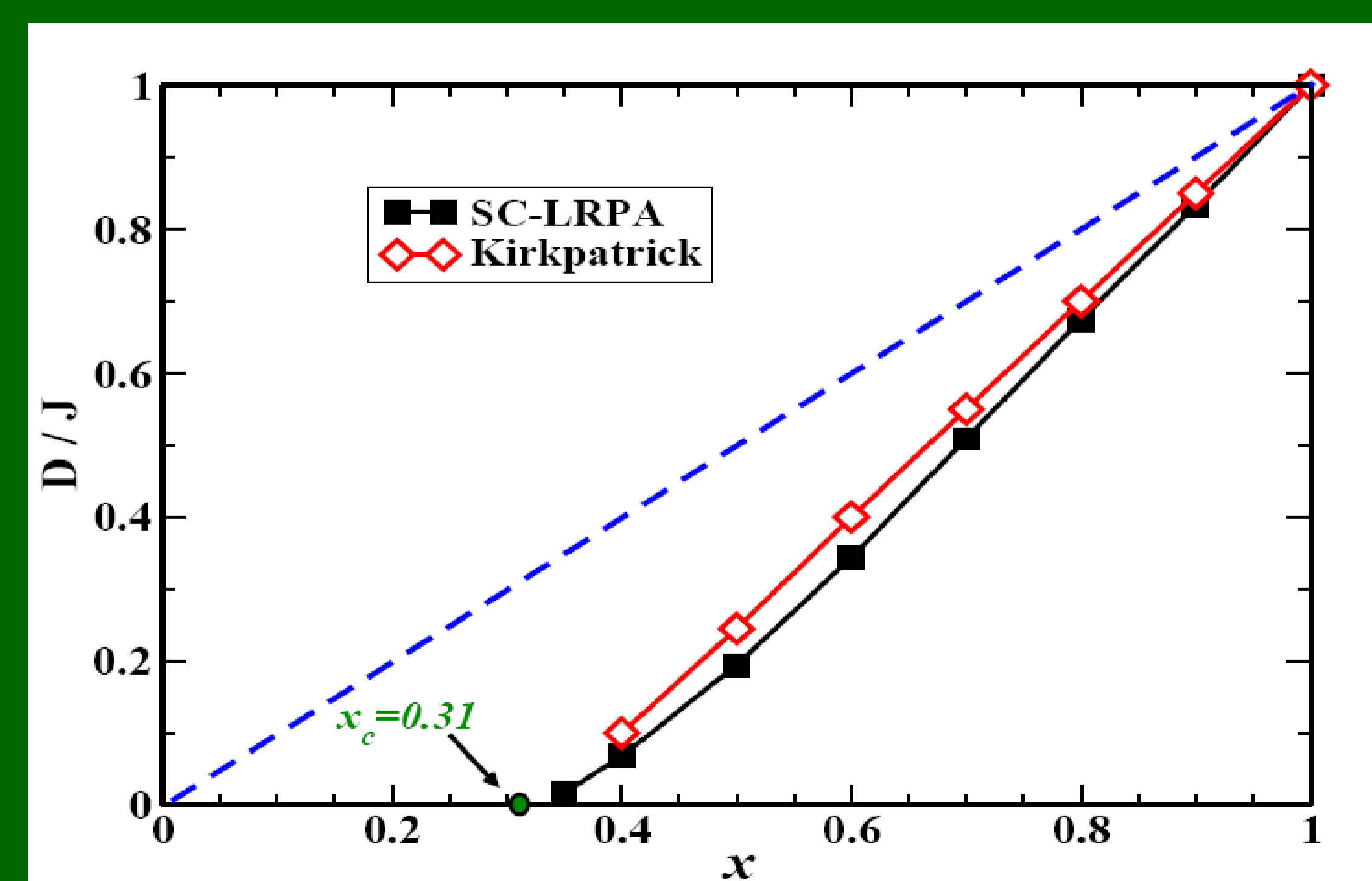
Spectral function $A(q, \omega)$ as a function of the energy ω in the (100) direction for different values of q_x , with varying concentration of magnetic impurities (x). The energy axis is in ω/J



Spectral function $A(q, \omega)$ in the (q, ω) plane for different concentration of magnetic impurities (x). (The size of the simple cubic lattice is $L=32$).



Magnon energy $\omega(q)$ (in ω/J) as a function of q^2 for different concentration of magnetic impurities (x). The size of the simple cubic lattice varies from $L=20, 24, 28$ and 32 .



Spin stiffness D (in D/J) as a function of the concentration of the magnetic impurities (x). The diamonds represent the data from Kirkpatrick*. The squares are calculated within SC-LRPA. The dashed line is the Virtual Crystal Approximation value. (x_c is the percolation threshold).