Hexagonal lattice Green functions applied to graphene

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$$\tilde{H} = a H^{(1)} + b H^{(2)} + c \left( H^{(3)} + \frac{1}{2} H^{(4)} \right)$$

The GFs are applied to find LDOS or spectral density for confined regions and for lattice modifications that are periodic or of finite support, such as punctures, edges and tears. Application to SMT and ARPES on graphene are indicated.

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