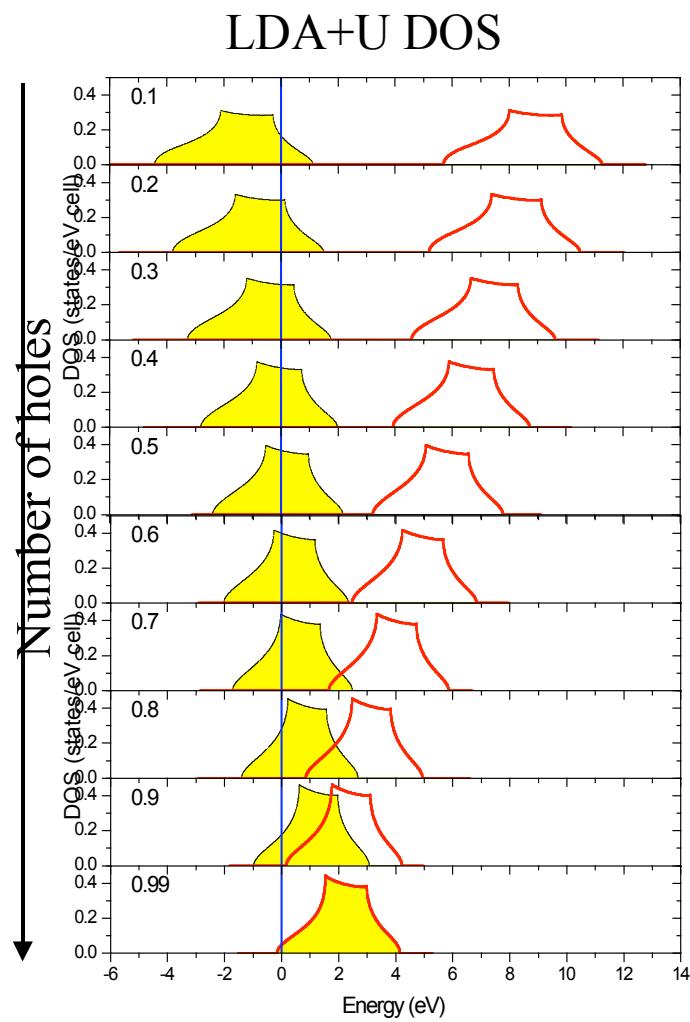
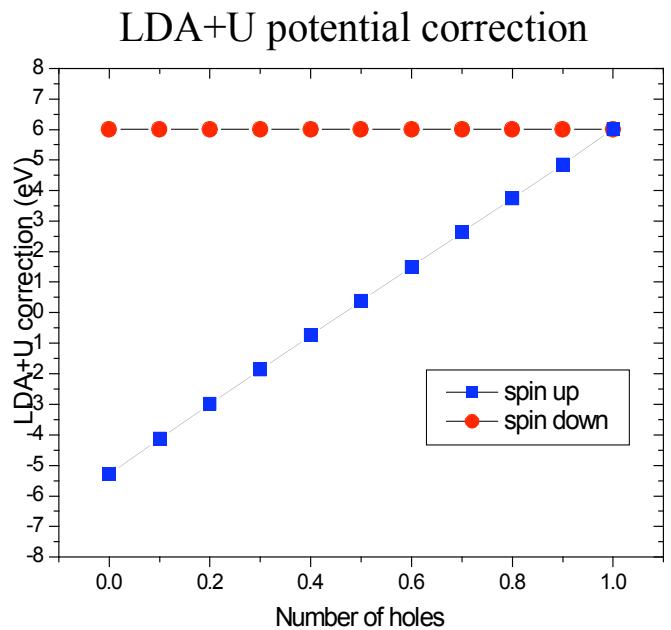


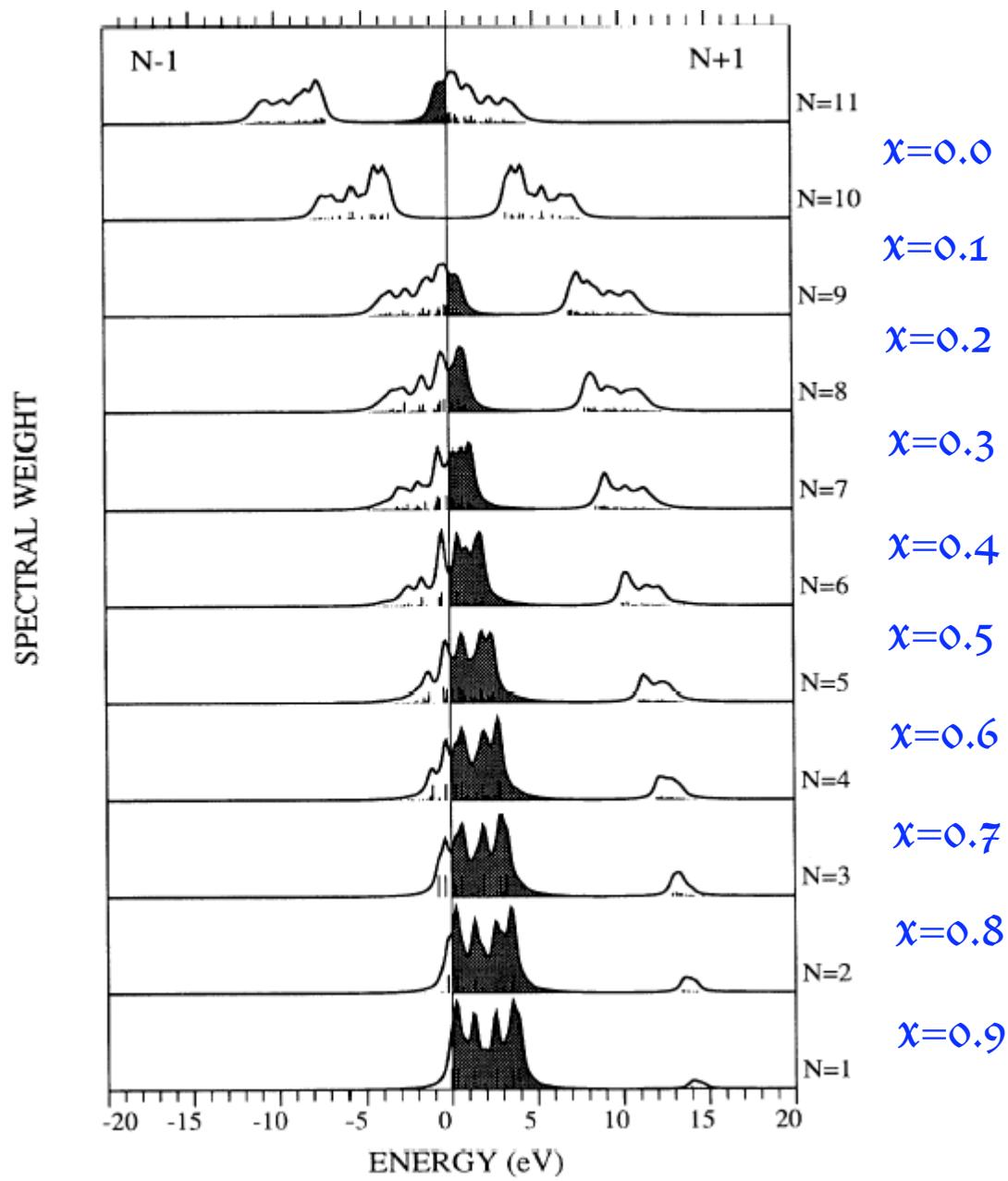
Spectral weight transfer in the one particle spectral function.

George sawatzky UBC

Elfimov unpublished
SC Hydrogen

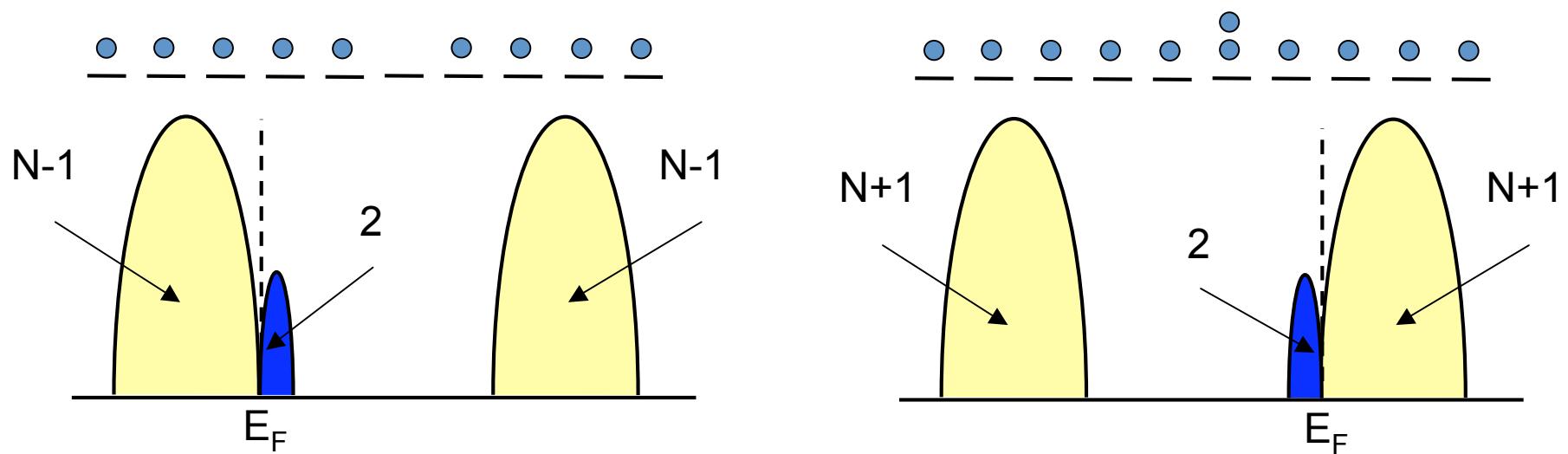
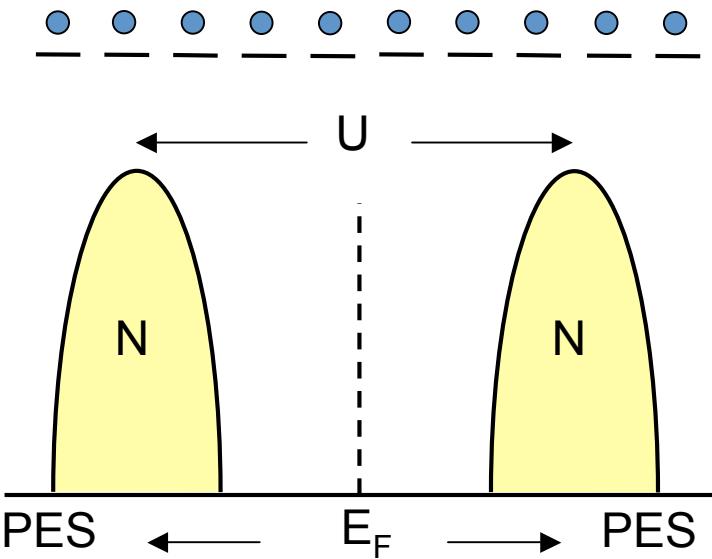
$a = 2.7 \text{ \AA}$
 $U = 12 \text{ eV}$

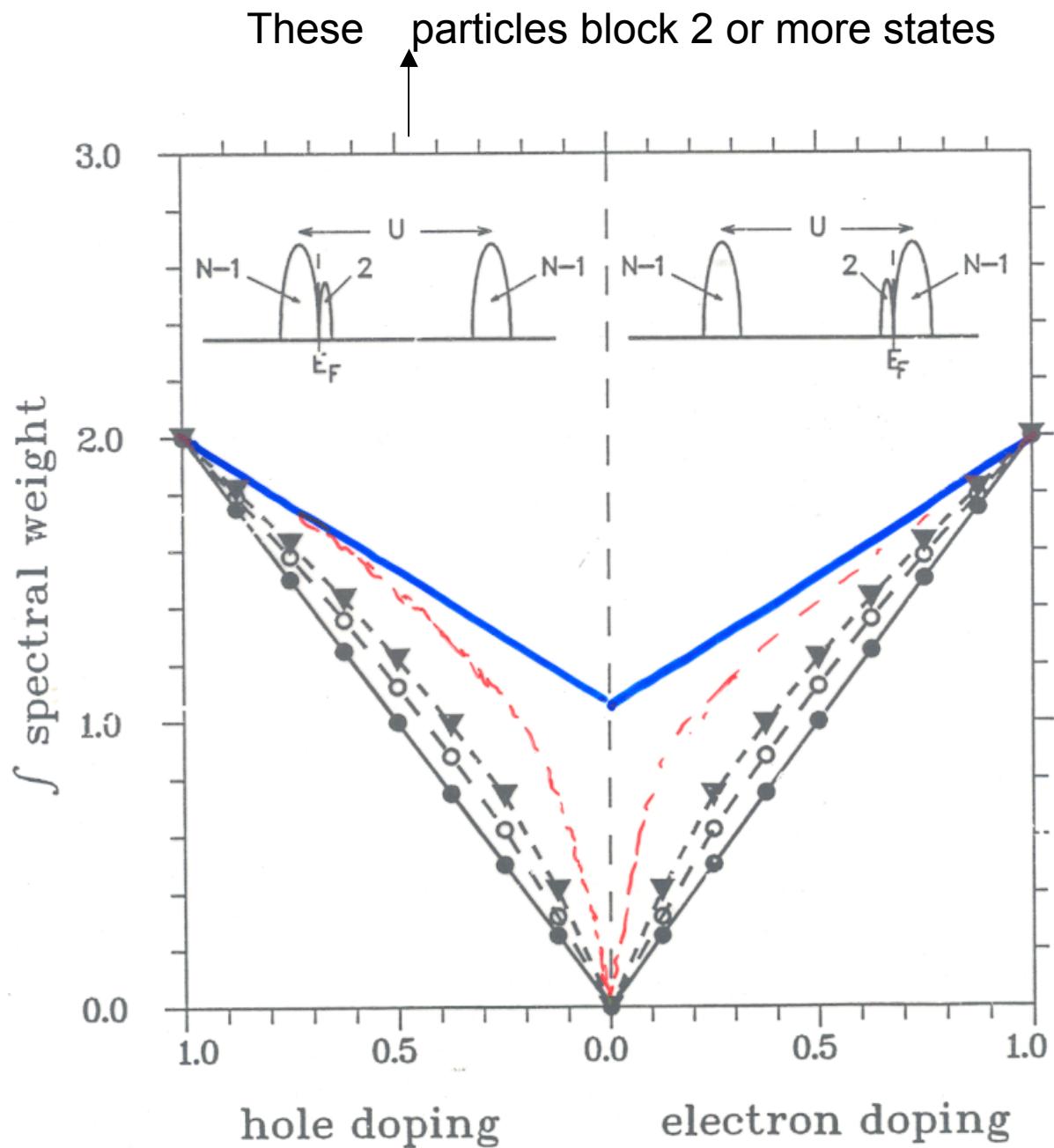




Meinders et al, PRB 48, 3916 (1993)

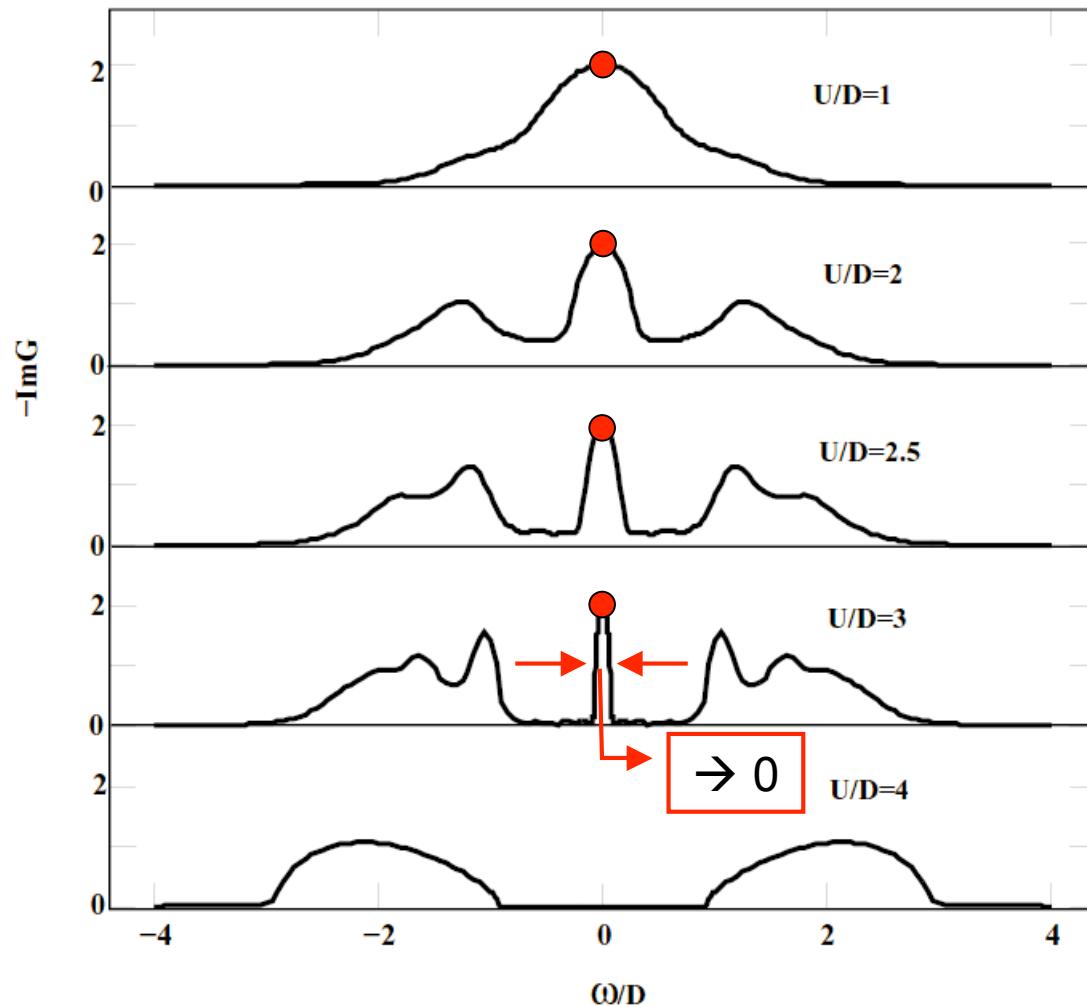
Mott – Hubbard





Bosons – block 0 states
Fermions – block 1 state

Dynamic Mean Field Theory



$D \rightarrow \text{inf.}$
Single Impurity
 $\Sigma \rightarrow k$ independent

$\frac{1}{2}$ filled Hubbard model

Local spectral density at $T = 0$, for several values of U , obtained by the IPT approximat

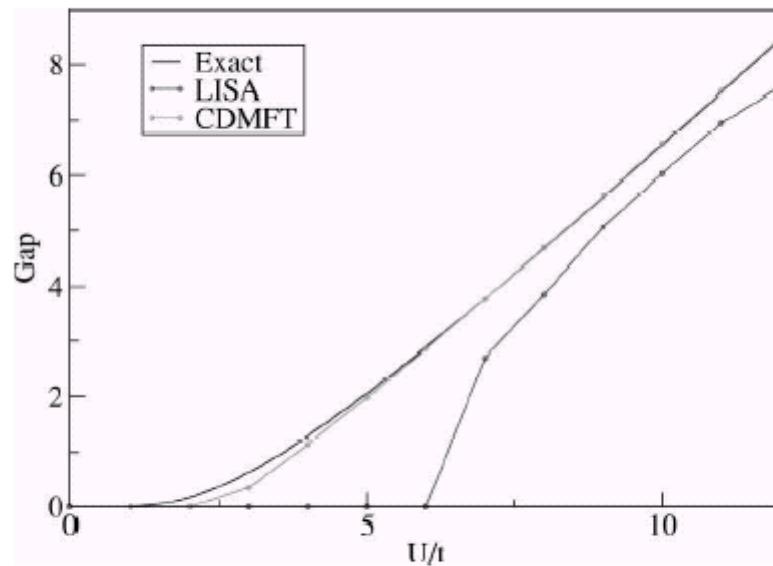


FIG. 1. Spectral gap as a function of U/t for the half-filled Hubbard model.