1022-35-123   **Ivana Alexandrova*** (`alexandrovai@ecu.edu`), Department of Mathematics, 124 Austin Building, East Carolina University, Greenville, NC 27858. *The Spectral Function at a Maximum of the Potential.* Preliminary report.

We consider the spectral function at a non-degenerate maximum of the potential and prove that it is a semi-classical Fourier integral operator. We also compute the phase function in the oscillatory integral representation of the spectral function. (Received September 11, 2006)