## **Turkish Journal of Physics**

## **Turkish Journal**

Charged Particle--Image Interaction Near a Conducting Surface

of

Physics

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<u>Abstract:</u> The interaction of a bulk electron with conducting surfaces is studied by means of the Bohm-Pines transformation in the second quantization formalism. The effective interaction potentials are obtained for the case of one plane and two plane configurations in the form of electron-image electron scattering.

Key Words: Bohm-Pines Transformation, Image Charge, Plasmons



Turk. J. Phys., 28, (2004), 95-110.

Full text: pdf

Other articles published in the same issue: Turk. J. Phys., vol. 28, iss. 2.

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