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## New Nanotechnology Findings from C. Riedel and Co-Authors Described.


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"We present a study of the lateral resolution in electrostatic force microscopy for dielectric samples in both force and gradient modes. Whereas previous studies have reported expressions for metallic surfaces having potential heterogeneities (Kelvin probe force microscopy), in this work we take into account the presence of a dielectric medium," researchers in San Sebastian, Spain report.

"We introduce a definition of the lateral resolution based on the force due to a test particle being either a point charge or a polarizable particle on the dielectric surface. The behaviour has been studied over a wide range of typical experimental parameters: tip-sample distance (1-20) nm, sample thickness (0-5)  $\mu\text{m}$  and dielectric constant (1-20), using the numerical simulation of the equivalent charge method. ...

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