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The intrinsic piezoresponse in piezoelectric medium under contact-mode piezoresponse force microscopy

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Highlights

- The electroelastic fields don't effect d_{33}^* under individual electromechanical loads
- d_{33}^* has strong correlation with the external loads under contact-mode PFM
- d_{33}^* changes with the geometry of the SPM probe under contact-mode PFM
- The directions of the electric polarizations modulate the magnitude of d_{33}^*

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