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Fundamental elastic field in an infinite plane of two-dimensional piezoelectric quasicrystal subjected to multi-physics loads

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## Highlights

- Green's functions of 2D decagonal piezoelectric QCs in an infinite plane are obtained.
- The effects of the phason field on the generalized displacement and stress are analyzed.
- The piezoelectric effect of 2D decagonal piezoelectric QCs is shown.
- Mechanical change regulations under different material constants are discussed.

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