CMT inversion considering the isotropic component-Focal mechanism difference between a fault event and a volcanic one-

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In the CMT inversion of a fault-type event, it is commonly assumed that there is no contribution of the isotropic component. However, in the case of a volcanic event or an artificial one, it is considered that the isotropic component is not negligible. In this study, we develop a CMT inversion code considering the isotropic component, and investigate a focal mechanism difference between a fault-type event and a volcanic one by using the code.

Keywords: CMT inversion, isotropic component, fault-type earthquake, volcanic earthquake, focal mechanism, earthquake ground-motion characteristics