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TDPAC study of the phase transitions in $\text{PbTi}_{1-x}\text{Hf}_x\text{O}_3$

Text

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Summary

In this work we present a study of the phase transitions by means of the variations of the Electric Field Gradient (EFG) as a function of temperature at ambient pressure on powder samples of $\text{PbTi}_{1-x}\text{Hf}_x\text{O}_3$ for $x=0.25, 0.50$ and 0.75 . For the EFG determination Perturbed Angular Correlation Spectroscopy (TDPAC) was employed. ^{181}Ta were used as probes atoms, which were obtained by neutron capture activation of ^{180}Hf naturally present in the sample. The obtained experimental results are also compared with previous ones obtained by Impedance Spectroscopy (IS).

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