

Erratum: Raman spectroscopy of single-domain multiferroic BiFeO₃
[Phys. Rev. B **81, 064110 (2010)]**R. Palai, H. Schmid, J. F. Scott, and R. S. Katiyar
(Received 25 March 2010; published 30 April 2010)DOI: [10.1103/PhysRevB.81.139903](https://doi.org/10.1103/PhysRevB.81.139903) PACS number(s): 78.30.-j, 68.55.-a, 63.20.-e, 68.49.Uv, 99.10.Cd

The original manuscript gives assignment of all $A_1(\text{LO})$ and $E(\text{TO})$ phonon modes and the lowest-frequency $A_1(\text{TO})$ mode in bismuth ferrite (BiFeO_3) single crystal. The scattering geometry for observing $A_1(\text{TO})$ modes is $Y(\text{ZZ})\bar{Y}$. However, the room-temperature spectrum in this orientation was quite weak, and the peaks appeared as shoulders over the strong Rayleigh scattering. Therefore, $A_1(\text{TO})$ modes could not be extracted accurately due to heavily dominating Rayleigh scattering. At least two of the three higher-frequency $A_1(\text{TO})$ modes (127, 168, and 212 cm^{-1} marked with “?” in Fig. 2) listed as $A_1(\text{TO})$ in Table I are incorrect, because such assignments violate the required alternation of $A_1(\text{TO})$ and $A_1(\text{LO})$ modes with increasing frequency. The alteration rule follows from the requirement that the poles and zeroes of the dielectric constant along a given axis of any medium must necessarily alternate.