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The Comparative Studies of Gamma-ray Shielding Properties of the PbO-BaO-B₂O₃ Glass System by Using FLUKA Code to XCOM Program and Accessible Experimental Data.

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We had performed computer simulations by using FLUKA code for investigating the gamma-ray shielding properties of the xPbO-(50-x)BaO-50B₂O₃ glass system (where $5 \le x \le 45$ mol%) for the 356, 662, 1173, and 1330 keV photons (gamma-ray) energies. Then we compared the results to the XCOM program and the experimental data. We found , the results agree very well with the XCOM and the real data. Furthermore, we also found that the results from FLUKA slightly closer to the experimental data than the XCOM.

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