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Terahertz radiation falls in between infrared radiation and microwave radiation in the electromagnetic spectrum, and it shares some properties with each of these. Like infrared and microwave radiation, terahertz radiation travels in a line of sight and is non-ionizing. Like microwave radiation, terahertz radiation can penetrate a wide variety of non-conducting materials.

Terahertz radiation - Wikipedia

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Fig 2 . Schematic representation of PET principle. (A) After travelling in tissue (positron range) positron loses energy and annihilates with electron resulting in two 511 keV annihilation photons travelling in opposite directions; (B) Annihilation photons are registered externally by radiodetectors consisting of scintillation crystals and photomultiplier tubes and assembled in a ring.

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13 Polarization refers to the shape of the curve traced by the tip of the electric field vector as a function of time at a point in space. Microwave systems are generally designed for linear or circular polarization.

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