

High-precision γ -ray spectroscopy of the cardiac PET imaging isotope ^{82}Rb and its impact on dosimetry

M.N. Nino *et al*

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1. What equation governs the shape of the red lines in Fig. 6? Why were the 0-2-0 transitions chosen to study angular correlations? [**Matt**]
2. How are PET images created? What kind of γ -ray detectors are used in PET machines? [**Doug**]
3. What is SPECT imaging? How is SPECT different from PET? What imaging agents are used for both, or can the same isotopes be used? Why does PET with ^{82}Rb have higher accuracy than SPECT? [**Kristyn**]
4. How does ^{99m}Tc compare to ^{82}Rb as an imaging isotope? [**Nadyah**]
5. How does the intensity of the γ -rays effect the dose? How is the absorbed dose in tissue calculated/simulated? [**Gula**]
6. What are other PET isotopes and why is ^{82}Rb preferred? What are some other isotopes and why aren't they being used? [**Rekam**]
7. Why was GAMMASPHERE an improvement from the 1983 experiment from Ref. 9? [**Som**]
8. What other physics came out of this paper other than PET applications? [**Mamun**]