

Physics Colloquium

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Neutrons and X-Rays for Health and Disease

Friday, March 1, 2019

2:30pm—3:30pm

210 Robeson Hall

Molecular biology is key to understand the origin of diseases and the molecular mode-of-action of drugs, which is essential for modern drug design. Neutron and x-ray scattering are amongst our most advanced tools to study such molecular structure and dynamics. Together with computer simulations they provide unprecedented capabilities in this respect. I will give examples of applications of neutrons and x-rays to better understand the functioning of drugs and antibiotics and how these experiments shed new light on our understanding of diseases, such as Alzheimer's disease, and the origin of life, including biomedical applications [1].

References

1. <http://www.rheinstaedter.de/maikel/publications/publications.htm>



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