

## **Compton Light Source and Its Applications**

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### **ABSTRACT:**

Compton Light Source is one of the four most promising light sources for the next generation due to its unique properties such as economical, portable, and energy tunable. With its wide energy covering range (from KeV to GeV), Compton Light Source has become a powerful tool not only for fundamental physics, but also for many other application fields. In this talk, I will discuss its principle, properties, and applications, especially in photonuclear physics, material imaging and medical imaging. I will also present the status of current Compton Light Source projects at the Shanghai Institute of Applied Physics in China, of which I have led for many years.