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## SVOM/ECLAIRs and the study of Gamma-Ray Bursts

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**Abstract:** My PhD thesis deals with the instrument ECLAIRs, the X- $/\gamma$ -ray coded-mask camera of the SVOM mission. I have developed a method that simulates astrophysical scenarios as they would be seen by ECLAIRs. This method has several scientific and instrumental applications, some of them presented in this poster. For example, it allows to predict and foster the ECLAIRs instrument detection performances or to validate the on-ground tests performed on the flight model currently.

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## Multi-messenger astronomy gravitational-waves interferometers Expected on-axis SNR for the objects in Sub-luminous high-energy transients our sample compared to their distance

Illustration for BBH mergers of the SNR i.e. isolated binaries systems. dependency on redshift for the  $z_h$  calculation