

Amorphous materials investigation in optical coatings: the VCR&D viewpoint for the 3G detectors

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Glasses have opened the possibility to discover GW when they have replaced steel suspensions and allowed better mirrors going from the first to the second generation. Would they stand the challenge of the third generation of detectors and that of Multimessenger Astronomy? The presentation is focused on answering this question, showing the efforts of the Virgo Coating R&D collaboration and the vision of the working group g-MAG about the sapphire technology.

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