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## Large optics for next generation gravitational wave detectors

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Upgrade from second generation interferometers and third generation ones will require larger size optics as well as new material substrates to handle low temperatures. In parallel to this technological challenges, a worldwide intensive research is underway to lower the coating thermal noise from the mirrors.

In this presentation, we will review the technological development and future plans regarding the substrates, polishing and coating for those future large mirrors.

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