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Development of CMS silicon strip detector module mechanics for Phase-II upgrade

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The CMS experiment will change its silicon tracker completely during phase II upgrade. There is need to develop light and high precision and durable mechanical structure for silicon sensor. The prime purpose of this should also be reducing material in the silicon tracker detector. The group at IIT Madras is heavily involved in R&D of production of this material. We have produced high precision bridge made of AL-CF material and carbon fiber stiffener.

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