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New radiobiology detector using scintillating arrays

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The radiobiological experiments show that in order to make an adequate correspondance between the biological effects and the dosimetric measurements it is necessary to have a high resolution dose map (~ microns). Having this in mind a project is being developed at Laboratório de Instrumentação e Física Experimental de Partículas (LIP), in Portugal, that aims at the development of a detector to allow for the performance of radiobiology studies with high spatial resolution, real time dose measurements and tissue equivalence using scintillating optical fibres. In this talk we will explore the development of the detector, the first tests and other applications of this solution to other areas of radiotherapy (minibeam radiotherapy and Quality Assurance tasks).

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