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Developing new detector model geometries in Allpix-Squared

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Recent efforts in the Allpix-Squared development have been focused on implementing non-typical detector model geometries, such as radial strip detectors with trapezoidal sensors or detectors with hexagonal pixels. The Geant4 library, the underlying simulation core handling (among else) model geometry in Allpix-Squared, can create a variety of detector shapes. However, creating the model geometry is only the beginning and many more issues have to be tackled, including choosing suitable coordinate systems or defining the segmentation of a sensor.
In this contribution, an overview of the development process of a new detector model is presented and illustrated on the example of the radial strip detector model.

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