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PACMAN: results and perspectives

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The objectives of the PACMAN project are to improve the precision and accuracy of the alignment of accelerator components. Two steps of alignment are concerned: the fiducialisation, e.g. the determination of the reference axis of components w.r.t. alignment targets, and the initial alignment of components on a common support assembly. The main accelerator components considered for the study are quadrupoles, 15 GHz BPM and RF structures from the CLIC project. Different methods have been developed to determine the reference axis of these components and then to determine the position of this reference axis in the coordinate frame of the common support assembly. Complementary studies have been undertaken as well. This presentation will introduce all the studies undertaken in the PACMAN project, and will present the results achieved and will give conclude with perspectives of the project.

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