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Status of FSI network development for the PACMAN project

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We present our strategy for fiducialising CLIC components within the final PACMAN alignment bench using Frequency Scanning Interferometry (FSI). We have developed a device to enable Absolute Multiline Technology perform absolute distance measurement to targets in different directions from the same point. This allows us to employ the multilateration technique to determine the coordinates of fiducials within the test bench. Using spherical high index glass targets with a wide acceptance angle we optimise the geometry of the measurement stations with respect to the fiducials for improved precision of coordinates. We demonstrate through simulations that the tight CLIC component fiducialisation requirements in the vertical and lateral axes can be attained using FSI multilateration

Summary

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