

## Using laser scanners and trackers to optimize accelerator installations

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By combining data from laser trackers and laser scanners we can develop 3D models of an accelerator system as it is built. This allows more precise shielding installations, higher tolerancing of equipment placement and a more productive design environment. Scans of areas are taken during beam off periods and combined with other alignment parameters. The designers can use this information to accurately place equipment and shielding even when they can not access the areas. This gives the design teams the ability to look at new areas and place equipment in these areas without leaving their desks. The resulting designs allow for tighter placement of shielding and equipment, while being assured that they will fit into the areas. In this talk I will outline how we are using the trackers, scanners and software to achieve the outcome we want.

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