

Innovations in CMOS Pixel Sensor Technology at IPHC: Projects and Future Prospects

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The IPHC Strasbourg has been developing CMOS pixel sensors for over two decades. The laboratory leverages the unique expertise of its C4PI microelectronic platform, encompassing everything from design to testing, in close collaboration with scientific groups. IPHC participates in numerous vertex and tracking detector projects, including CBM-MVD, ALICE ITS-3, the Belle-2 upgrade, and future e+e colliders. Additionally, they are engaged in generic R&D efforts, such as new readout architectures and TPSCo 65 nm R&D. This presentation will cover the main achievements of these projects and the current R&D program. The IPHC strategy aims to maximize synergies among various R&D initiatives, particularly benefiting from the DRD3 framework.

Type of presentation (in-person/online)

in-person presentation

Type of presentation (scientific results or project proposal)

Presentation on scientific results

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