

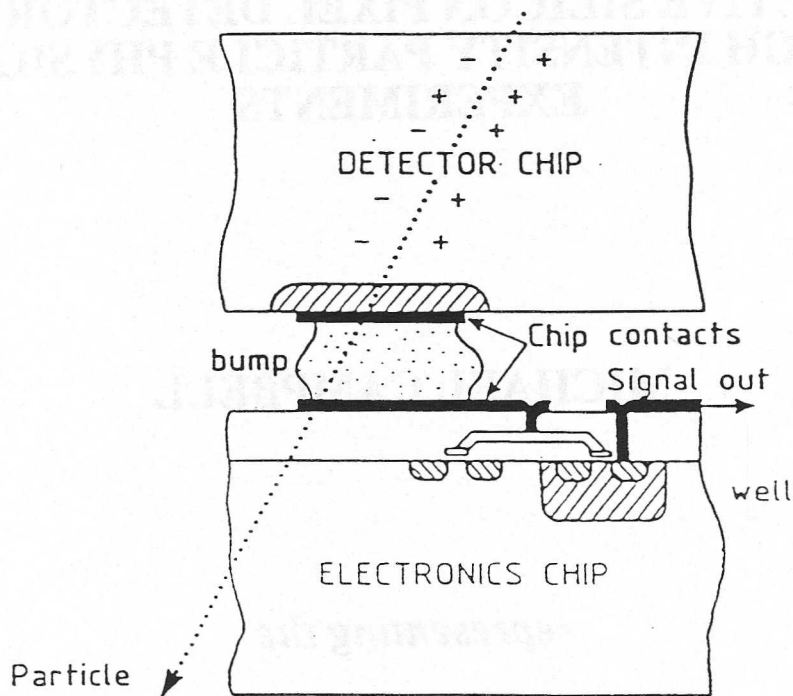
**AN ACTIVE SILICON PIXEL DETECTOR FOR
HIGH INTENSITY PARTICLE PHYSICS
EXPERIMENTS**

MICHAEL CAMPBELL

representing the

CERN Detector R&D Collaboration RD-19

HYBRID PIXEL DETECTOR



Advantages.

- Well mastered CMOS technology - SACMOS, FinFET, etc.
- Simple detector structure - Cambridge, B
- Reliable bumping procedure - GEC, Marconi, etc.
- Electrical isolation

Disadvantages

- Extra mass of bump