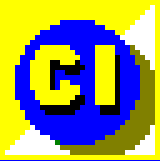
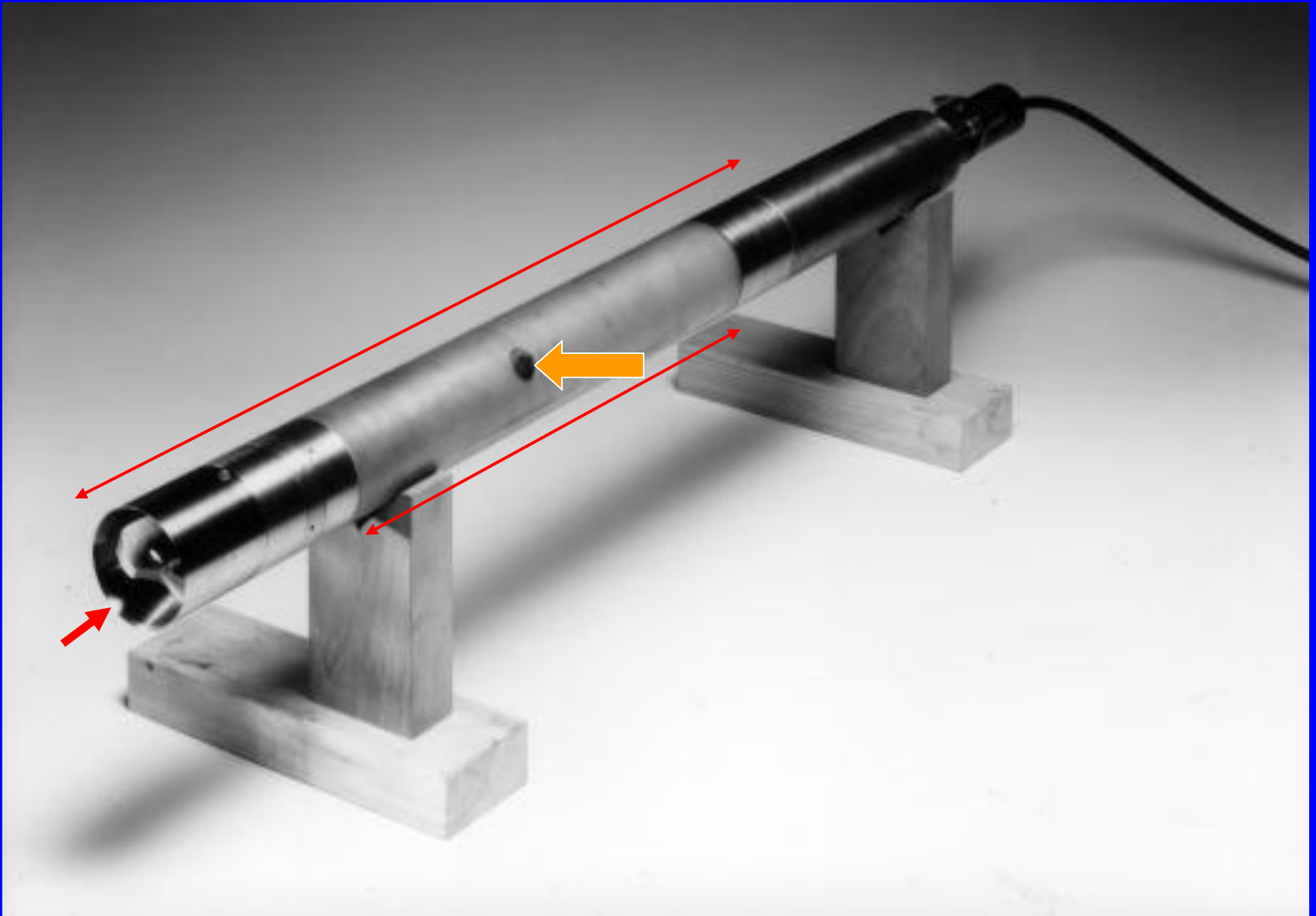


Using Pressuremeters



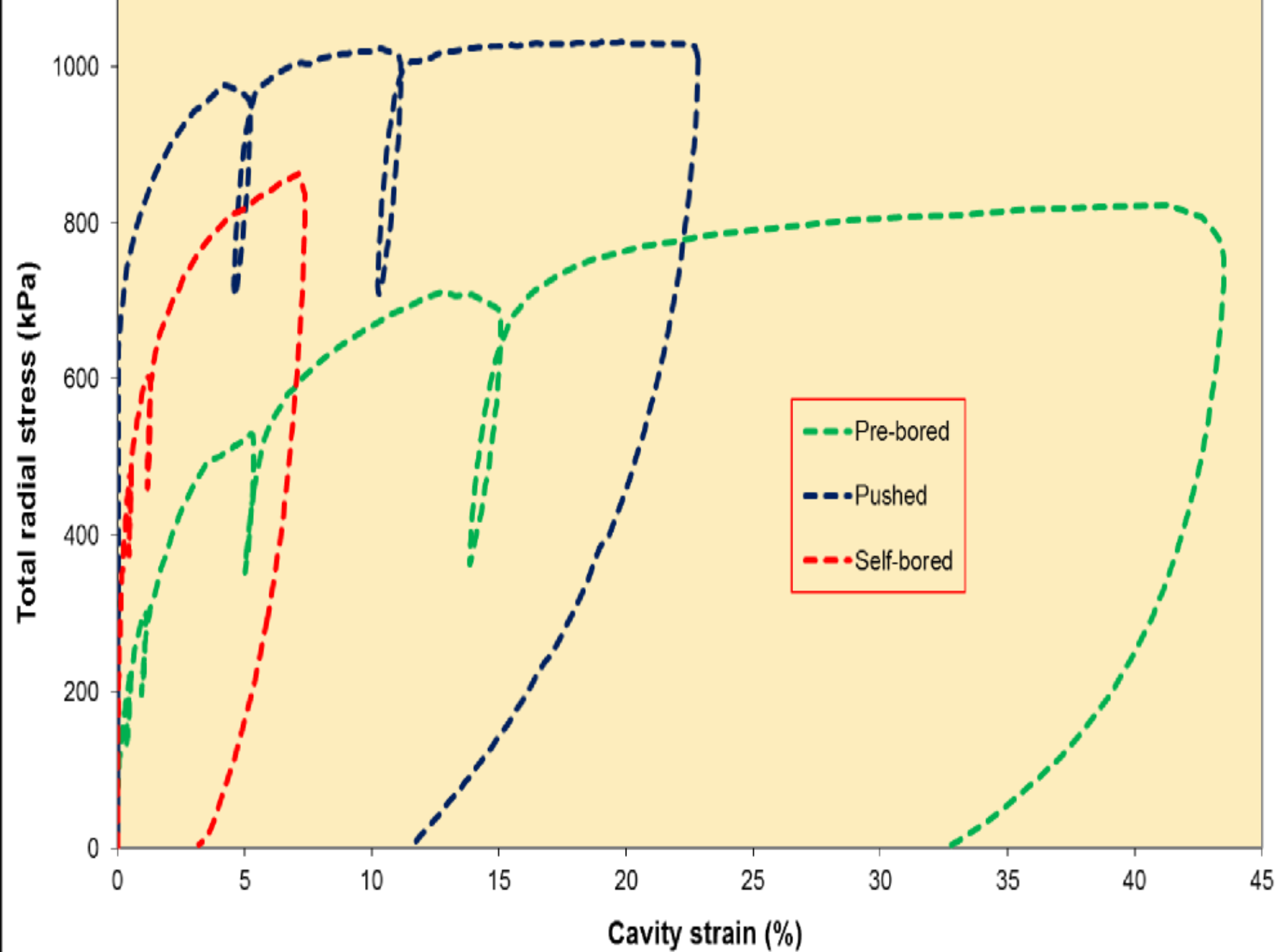
The Self Boring Pressuremeter



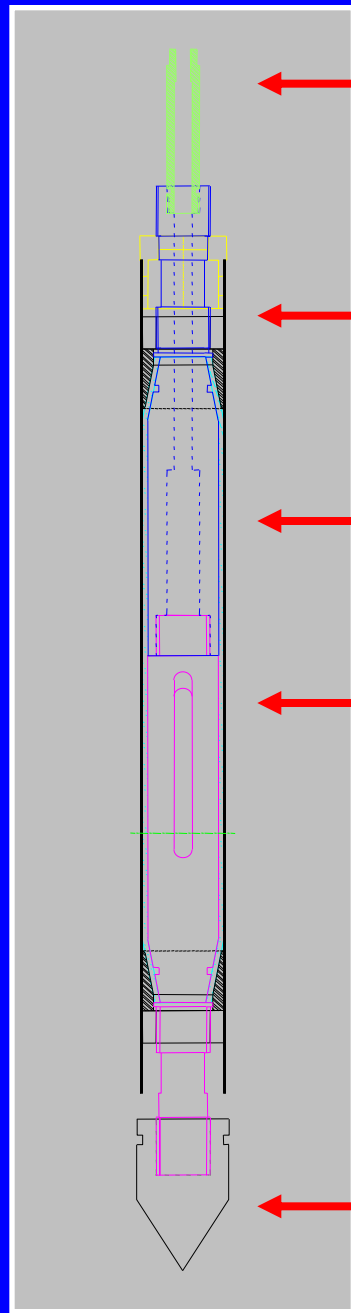


The 73 and
95 High
Pressure
Dilatometer

What can you get out of them?



Drive in Pressuremeter (DIPM)



← Air injected
under pressure

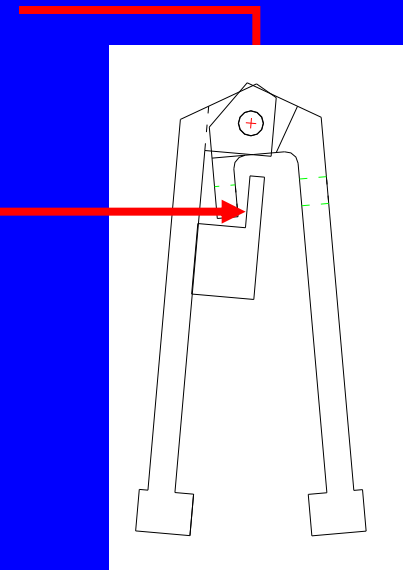
← Connection
to cone rods

← Expanding section comprising reinforced
membrane overlain by Chinese lantern

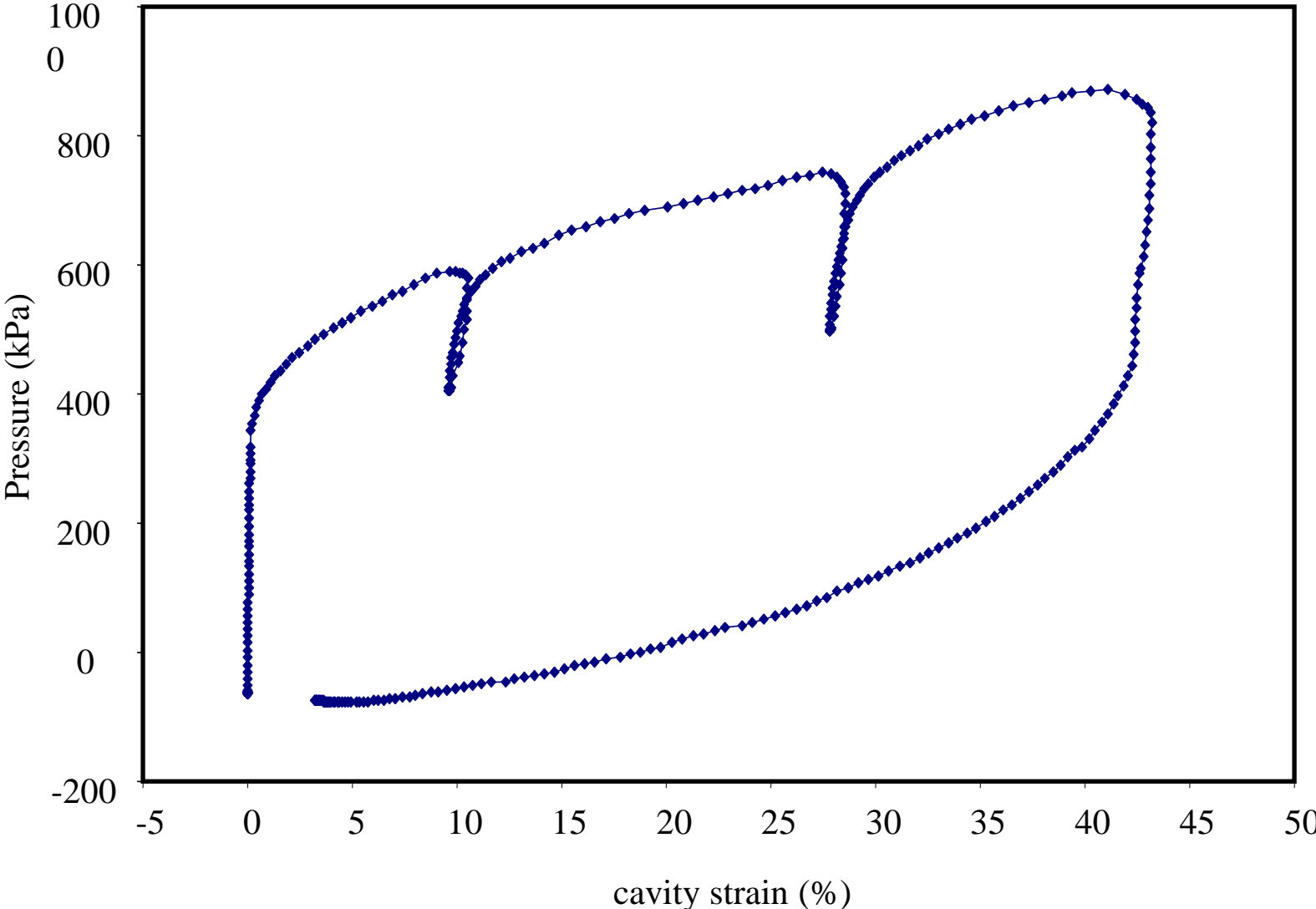
← Displacement measuring
system

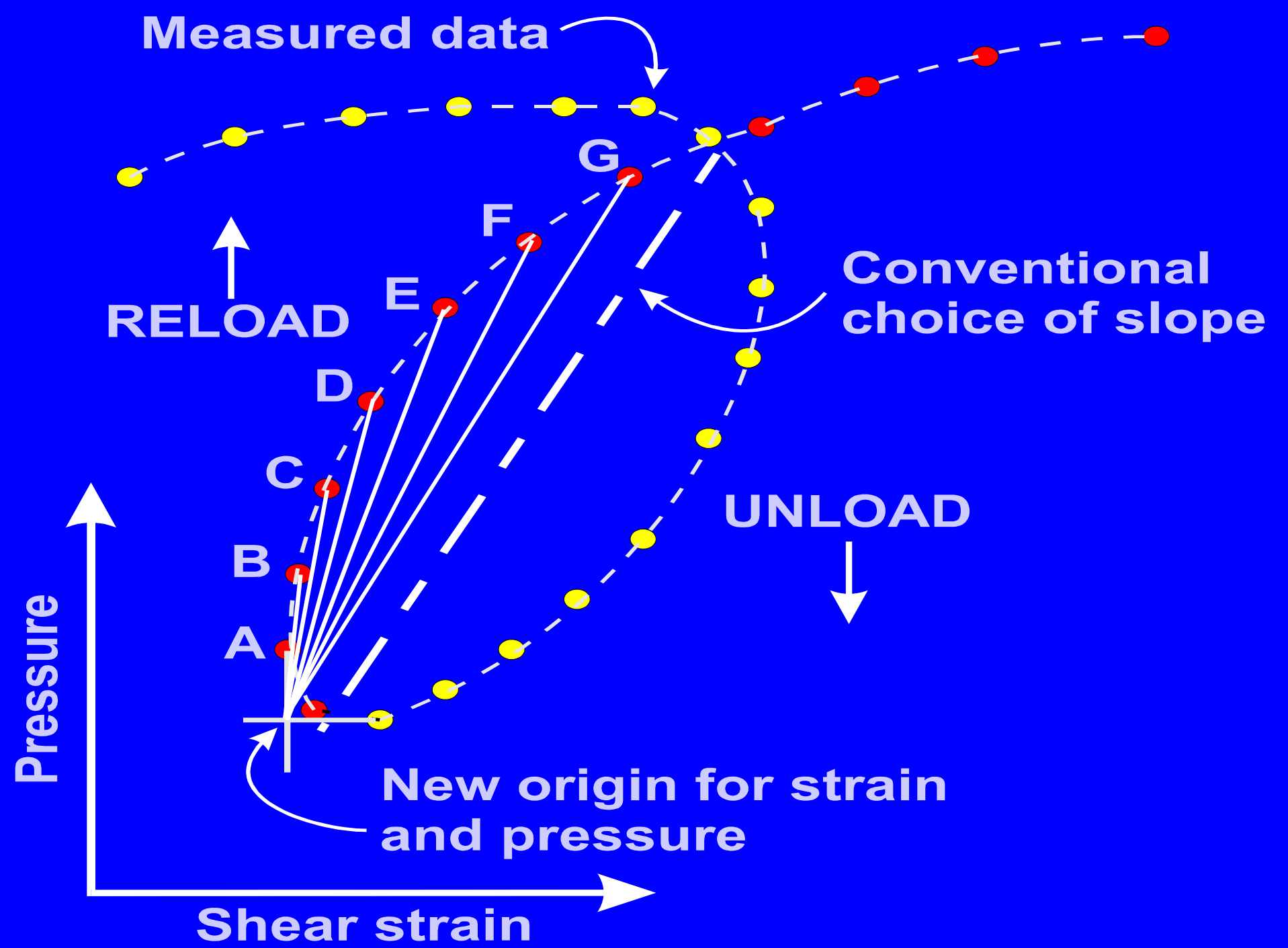
Hall effect transducer

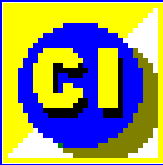
← Conical tip



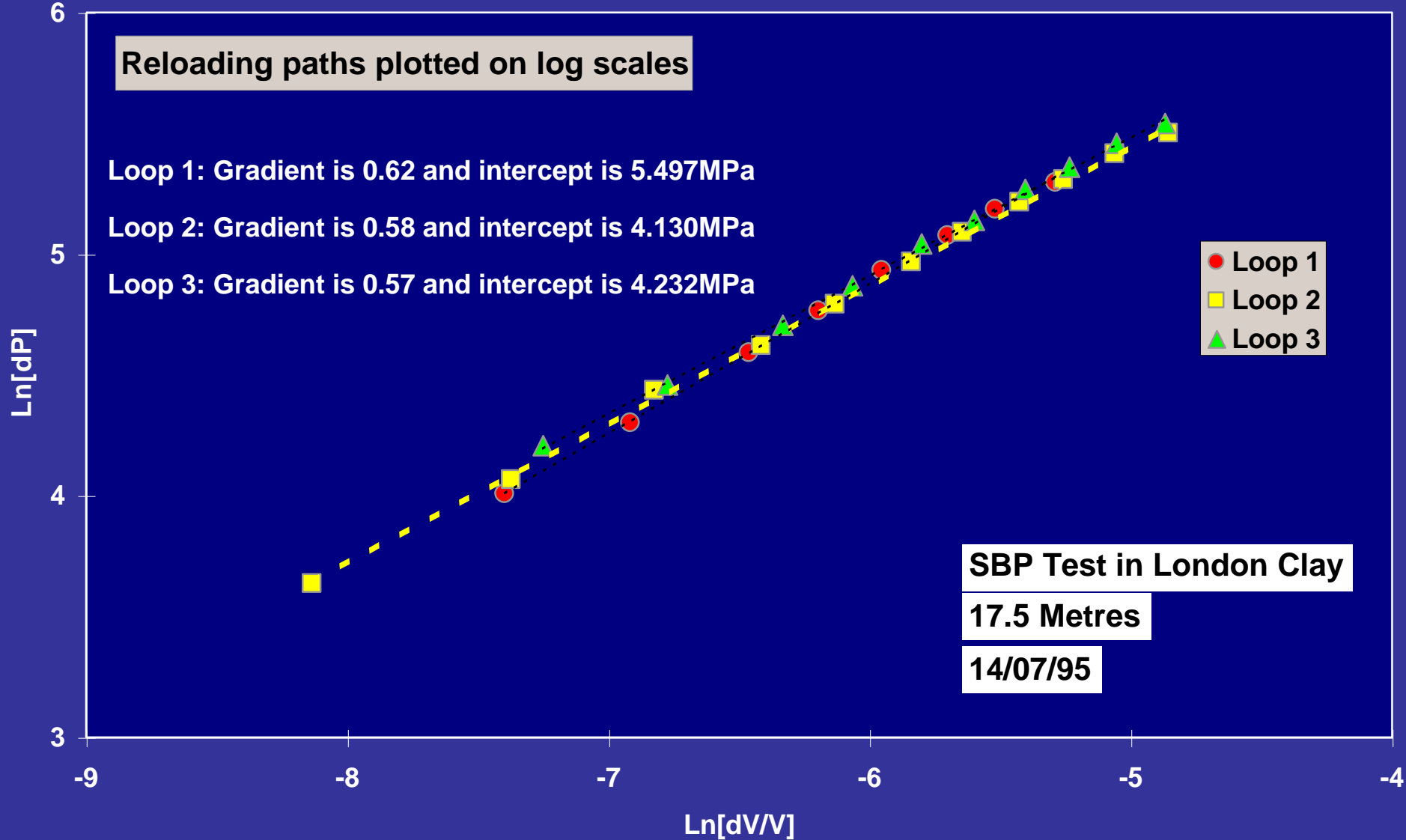
DIPM TEST CURVE EXAMPLE





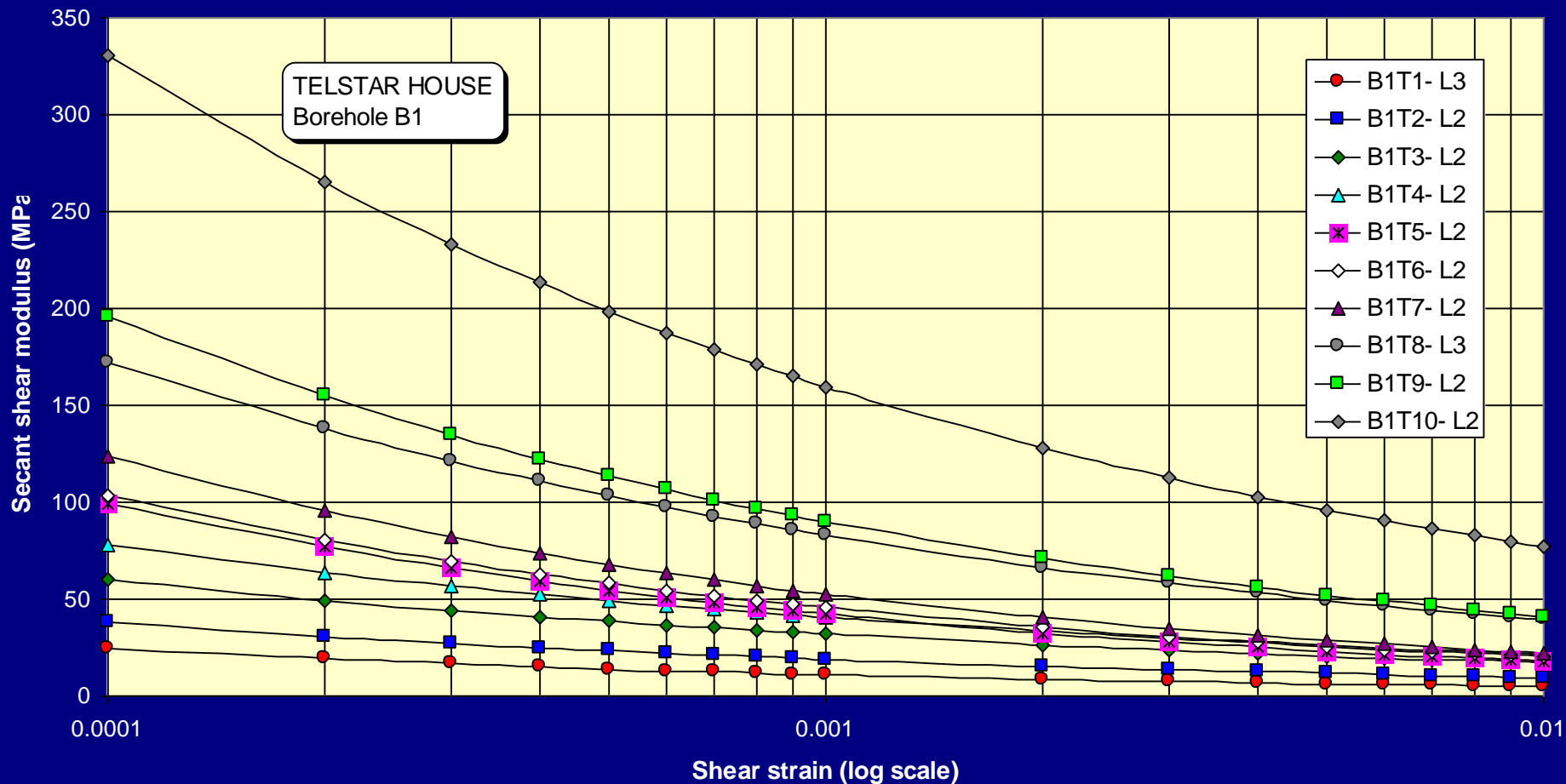


Reloading data from 3 loops

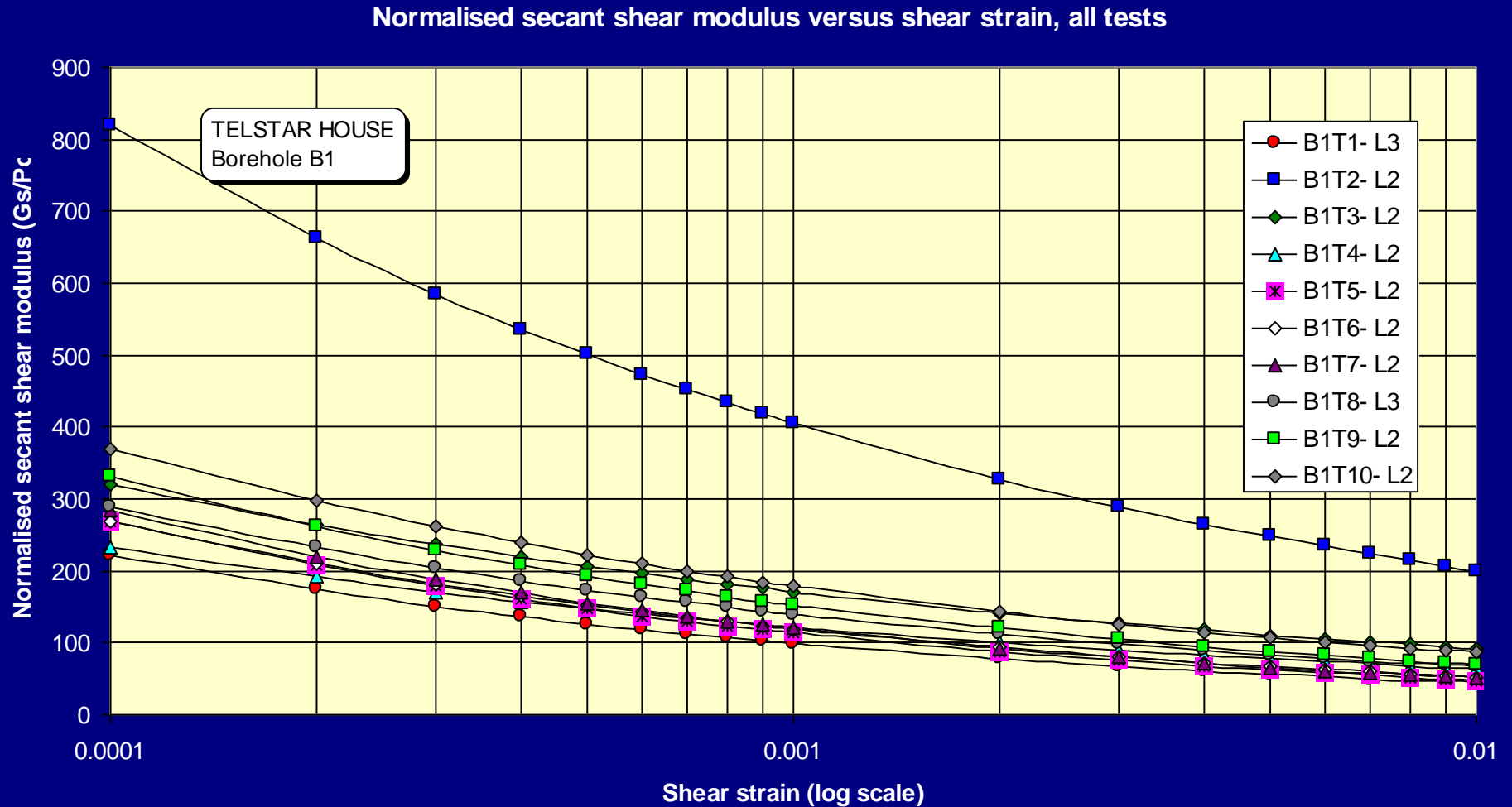


10 tests in 1 borehole – the measured variation of G

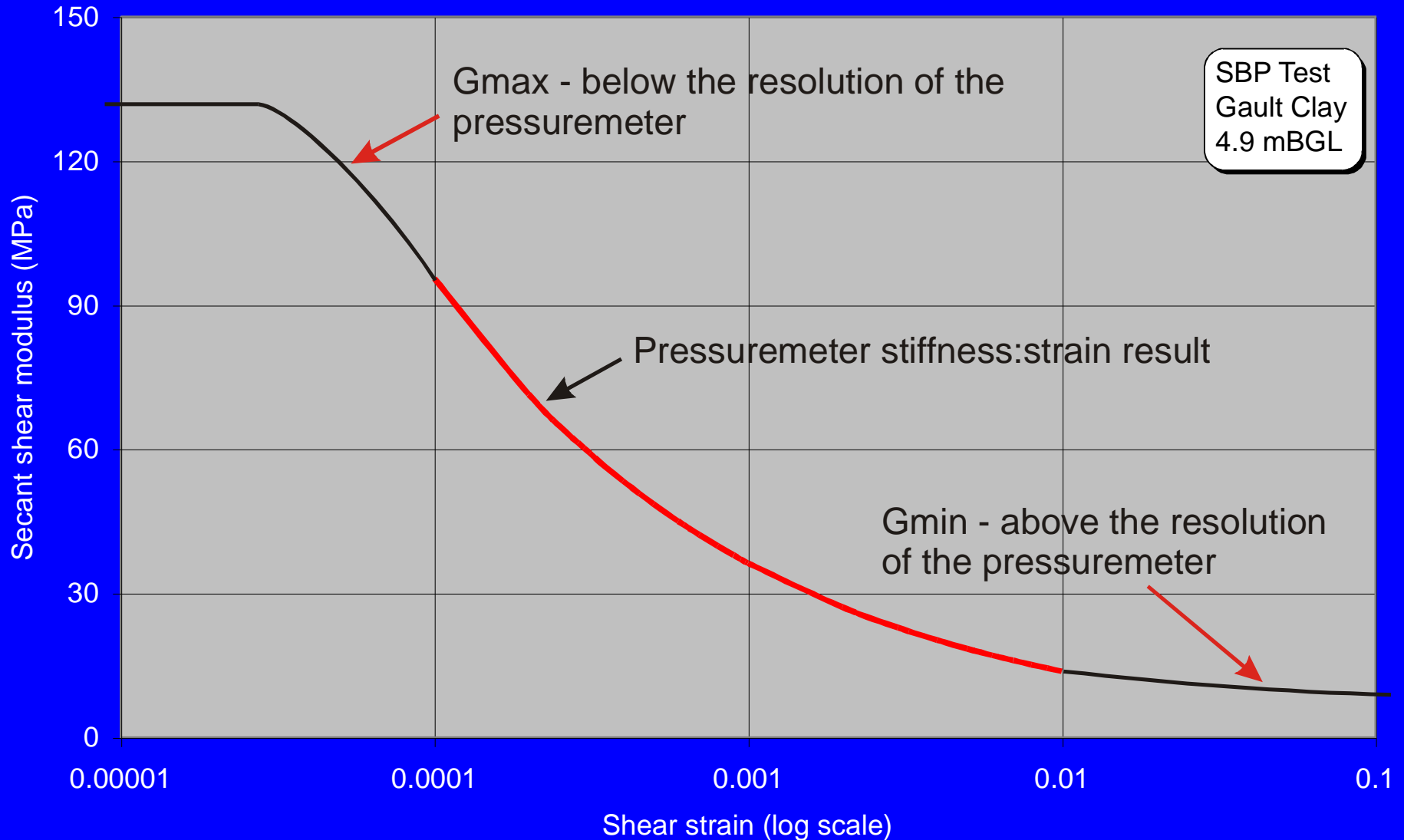
Secant shear modulus versus shear strain, all tests



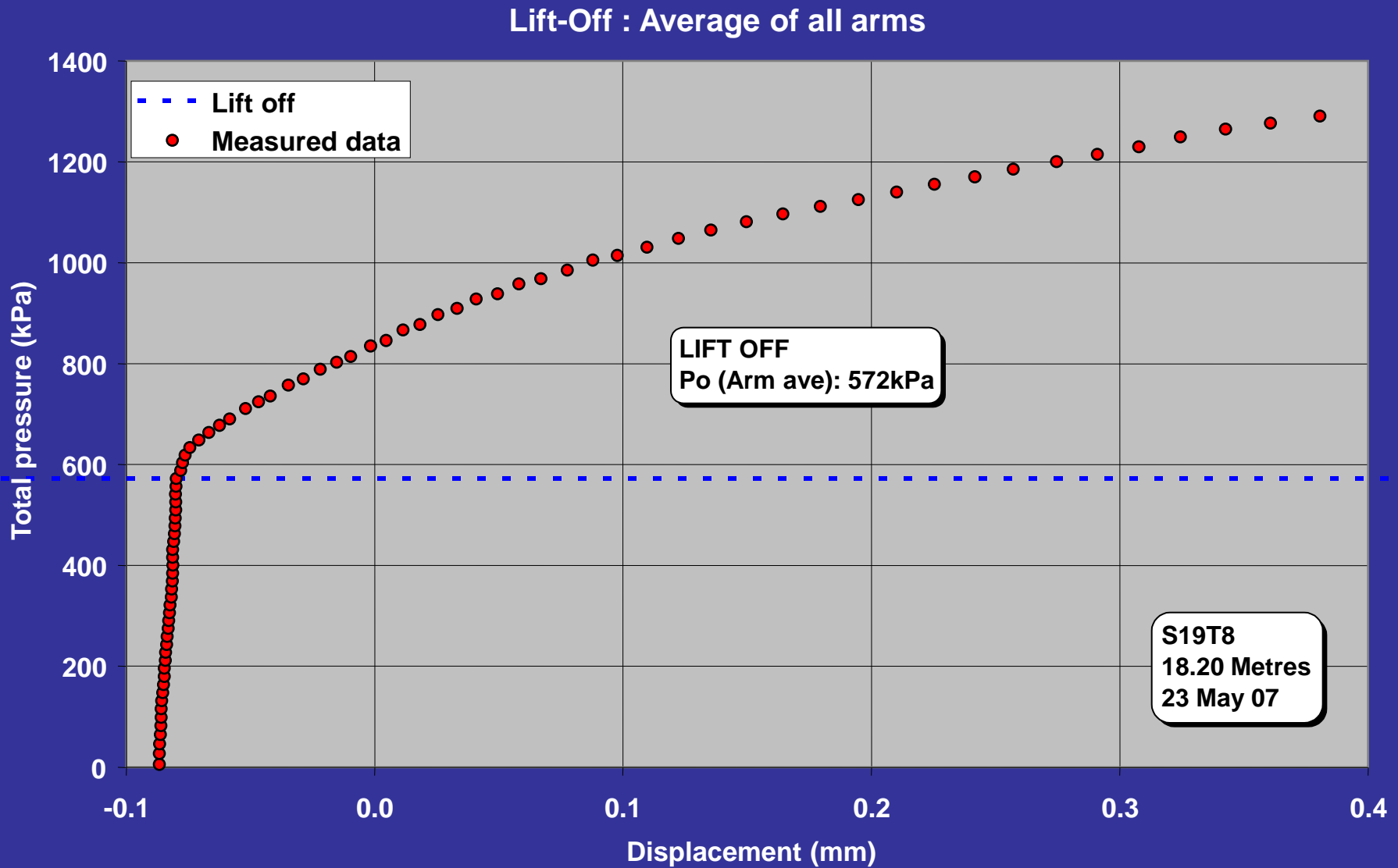
10 tests in 1 borehole – normalised variation of G



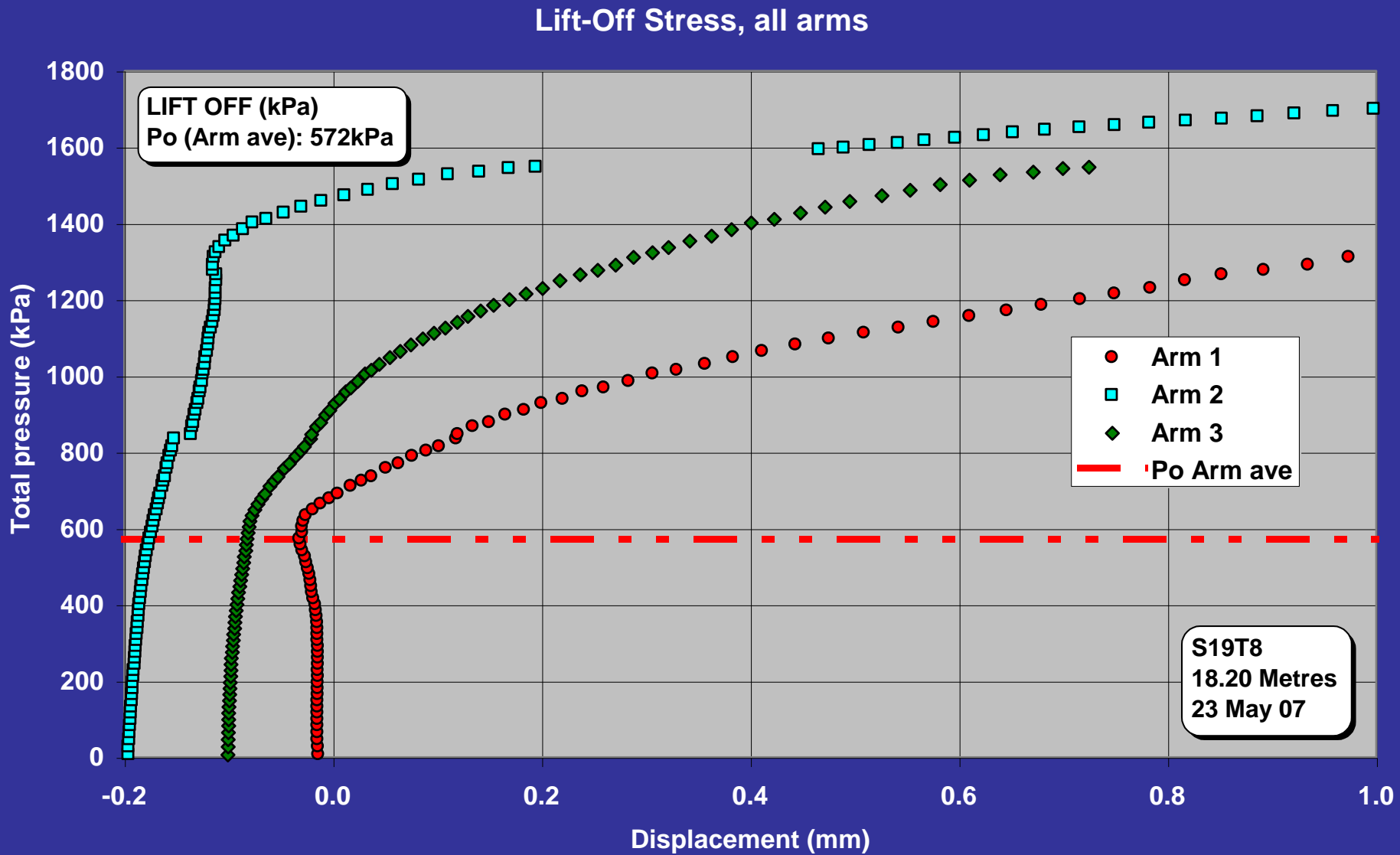
The limits of pressuremeter stiffness measurement



An example of lift-off (1)

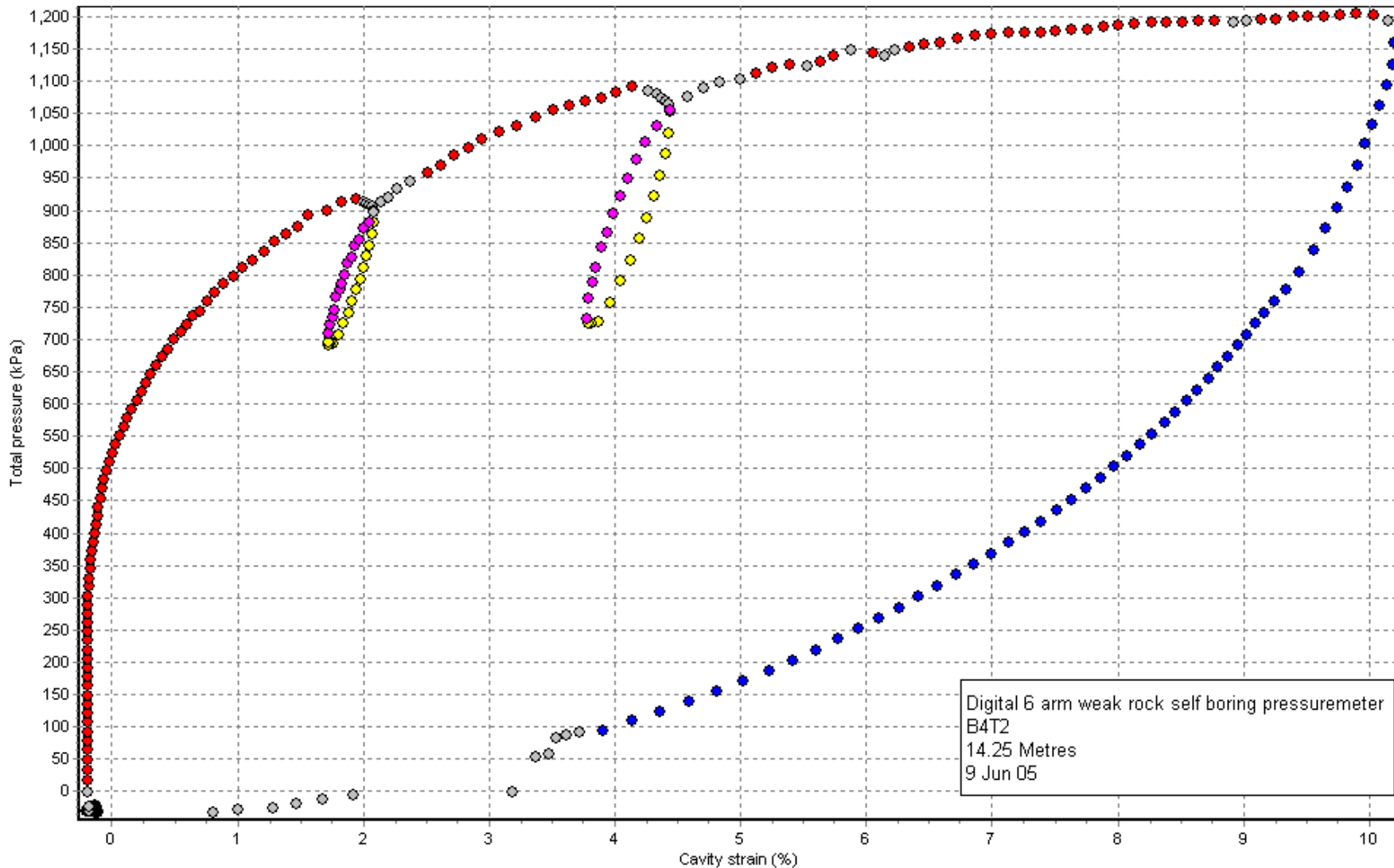


An example of lift-off (2)



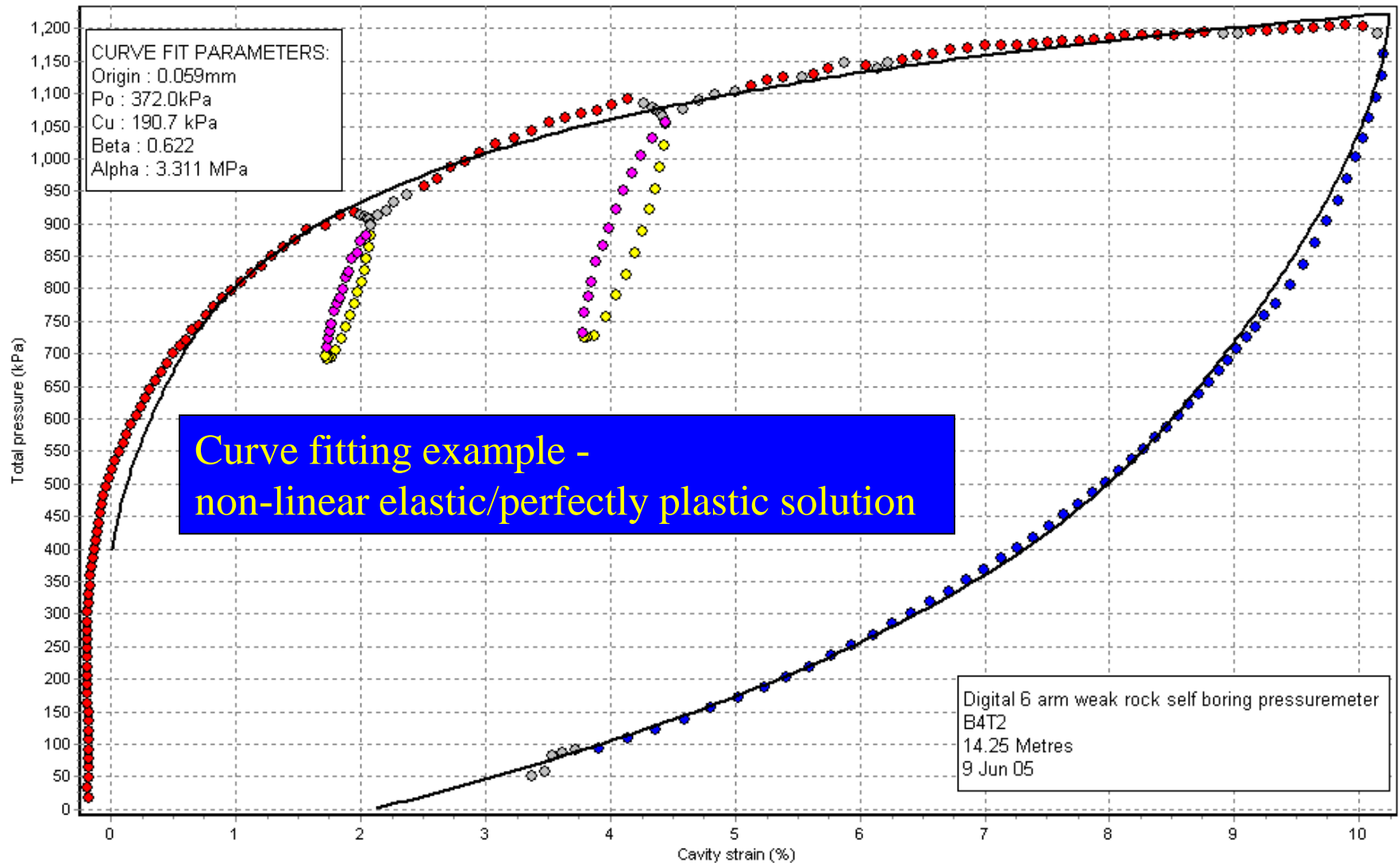
SBP test - Shepherds Bush - 1 of 2

Cavity strain vs Total Pressure : Arm ave



SBP test - Shepherds Bush, 2 of 2

Curve comparison (Whittle 1999) : Arm ave



Further information? Stand 21