Laser ablation of plastic is removed Locally by Sumblington i using intense daser Beam Bonding of 2 wafer Teutectic Bonding Gold-Si -20363°C Si-Si Bonding (DB» direct bonding)

3 @ 300-6001000'C = eleveled temp

- 4 Borling Annealing @ 800-1100°C to improve Bond quality Immerse in SH202-H2SOymax or boiling in HADS

-> DClean by H20-NH3-H202 soln -> Moisture removal @ 130°C 9 @ 600°C for 6-8 hrs (Thermal Bonding) Metal-Metal Polymer-Polymer -> Press-> 276 bars -> for, PDMS 2-R > 920°C @4hrs of Low Surface thery -) surface treatment with Q-plasma Fluidic-Interconnects

spressfit > Glued - surface rougher for better adhesion -> utilises elastic bond -> sealing force is small as polymer glue is used - Good for dow fress appli-cation 3/10 Glass Capillary & Si wafer Kovar Tube > alloy of 29%, Ni IFY, Cy S4 1, fe @ 10201

Glan-Glan DB

Integrated O-ring > D Etch of annular area (by DRIE) Deposition of oxide (5:02) or nitride (2:2Nu) -> Si-rubber squeezed into the cavitles > fluidic accessible be spende from the back side by DRIE -> Oxide/Nitride dager is etched un buffered HF acid and SFE plasma