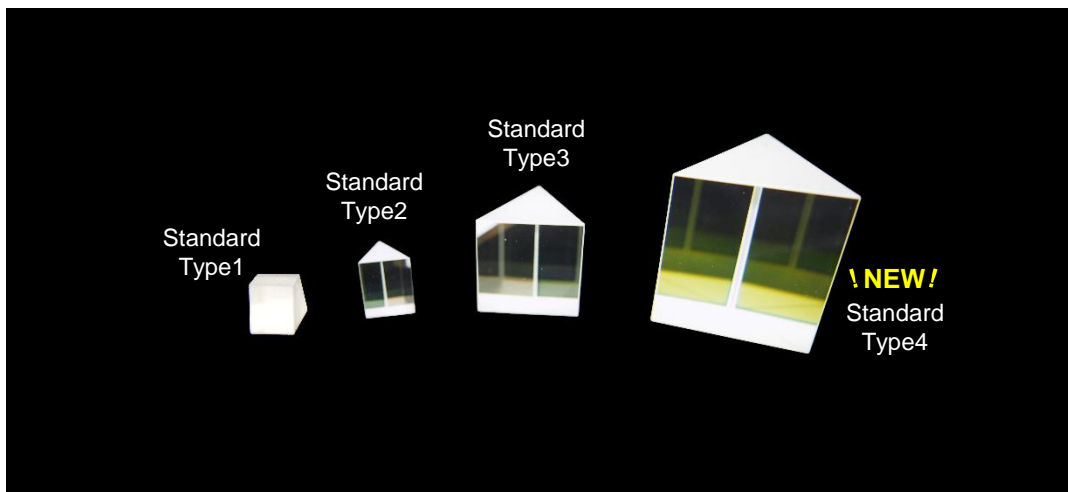


Mg:SLN Prism for THz Generation

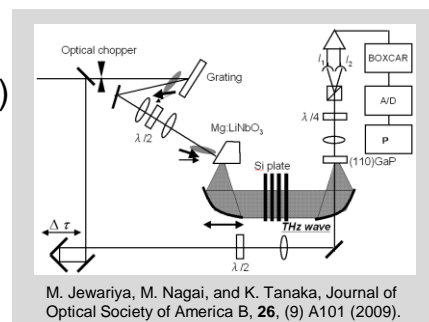
Cherenkov-type Phase Matched THz Wave Generation



Advantages

(Mg:SLN : Mg 1.3mol% doped stoichiometric LiNbO₃)

- ✓ Enables intense THz pulse generation (\sim MV/cm)
- ✓ Wide THz bandwidth (0.2~2.5 THz)
- ✓ Low defect density
- ✓ High damage threshold
- ✓ Higher transmittance at THz region (comparing to Mg:CLN)
- ✓ Extra large aperture (Type 4: 30 mm x 30 mm)



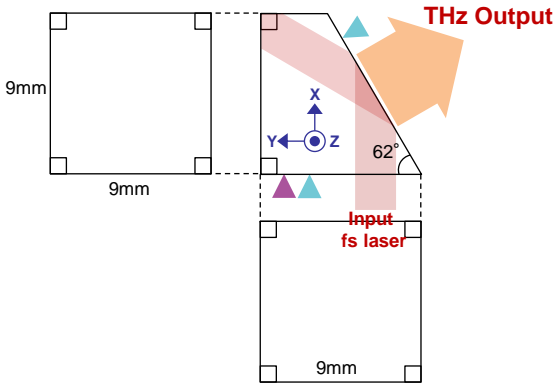
Applications

- Pump-probe spectroscopy
- Nonlinear THz spectroscopy (THz-SHG, THz-THG, 2D-THz)
- Intense coherent excitation in solids (phonon, magnon, etc.)



Detail dimension and specification

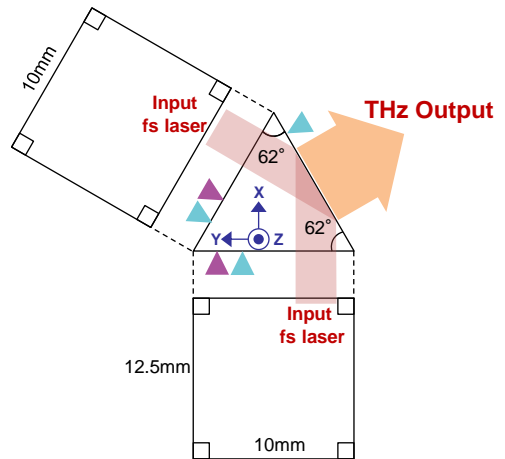
Standard Type 1 - Basic



▲ AR coating
 $R < 1.0\%$ @ 780 - 820nm
 $R < 0.5\%$ @ 1025nm ~ 1065nm

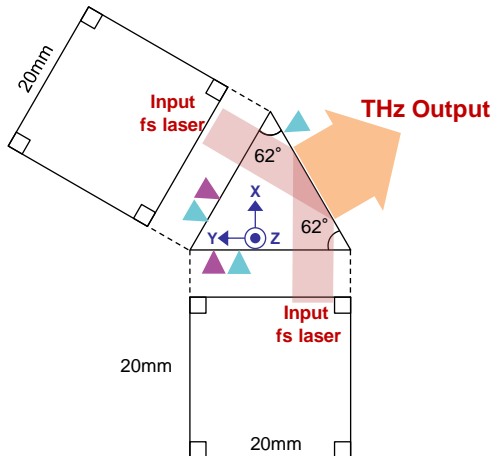
▲ Optically polished
 ▲ AR coating

Standard Type 2 - High Power



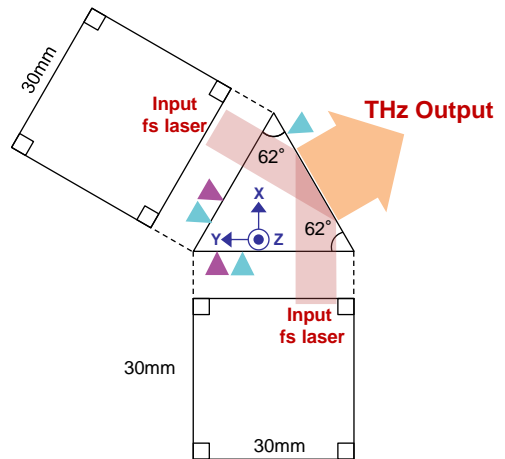
▲ AR coating
 $R < 1.0\%$ @ 780 - 820nm
 $R < 0.5\%$ @ 1025nm ~ 1065nm

Standard Type 3 - Large Aperture



▲ AR coating
 $R < 0.5\%$ @ 780 - 820nm
 $R < 1.0\%$ @ 1025nm ~ 1065nm

Standard Type 4 - Extra Large Aperture



▲ AR coating
 $R < 0.5\%$ @ 780 - 820nm
 $R < 1.0\%$ @ 1025nm ~ 1065nm

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