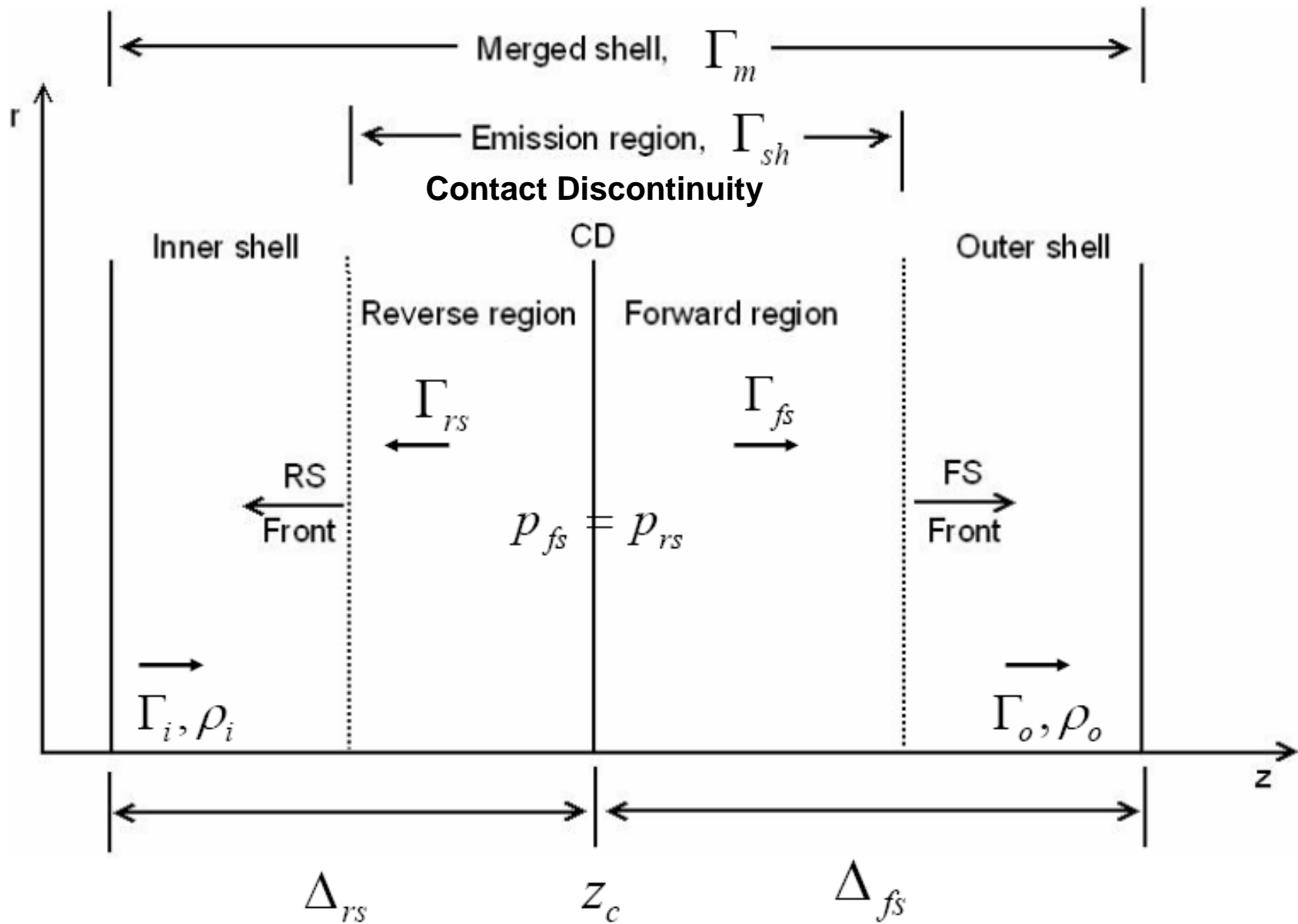


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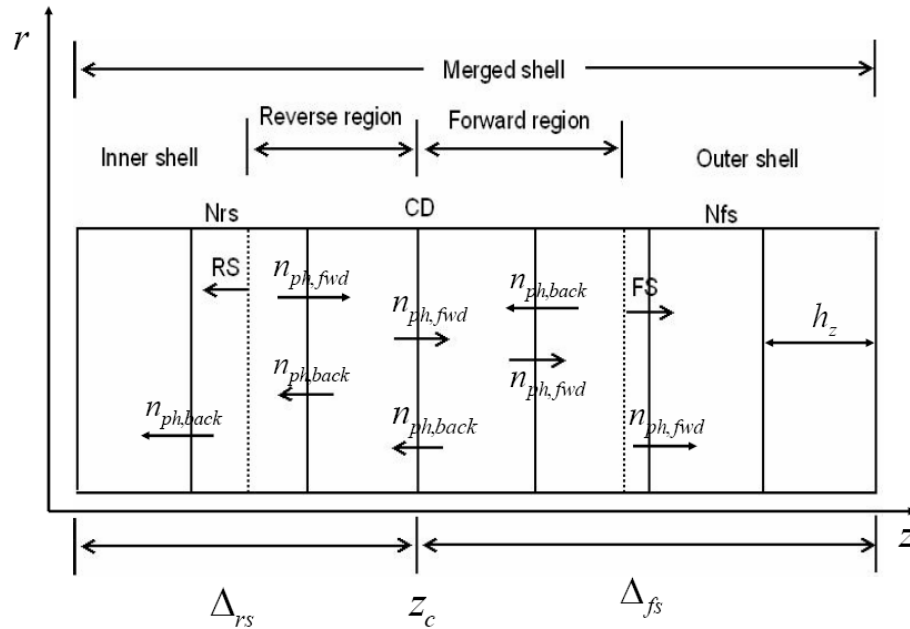
# Multi-wavelength Spectral Analysis Of The Blazar 3C 279

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Manasvita Joshi

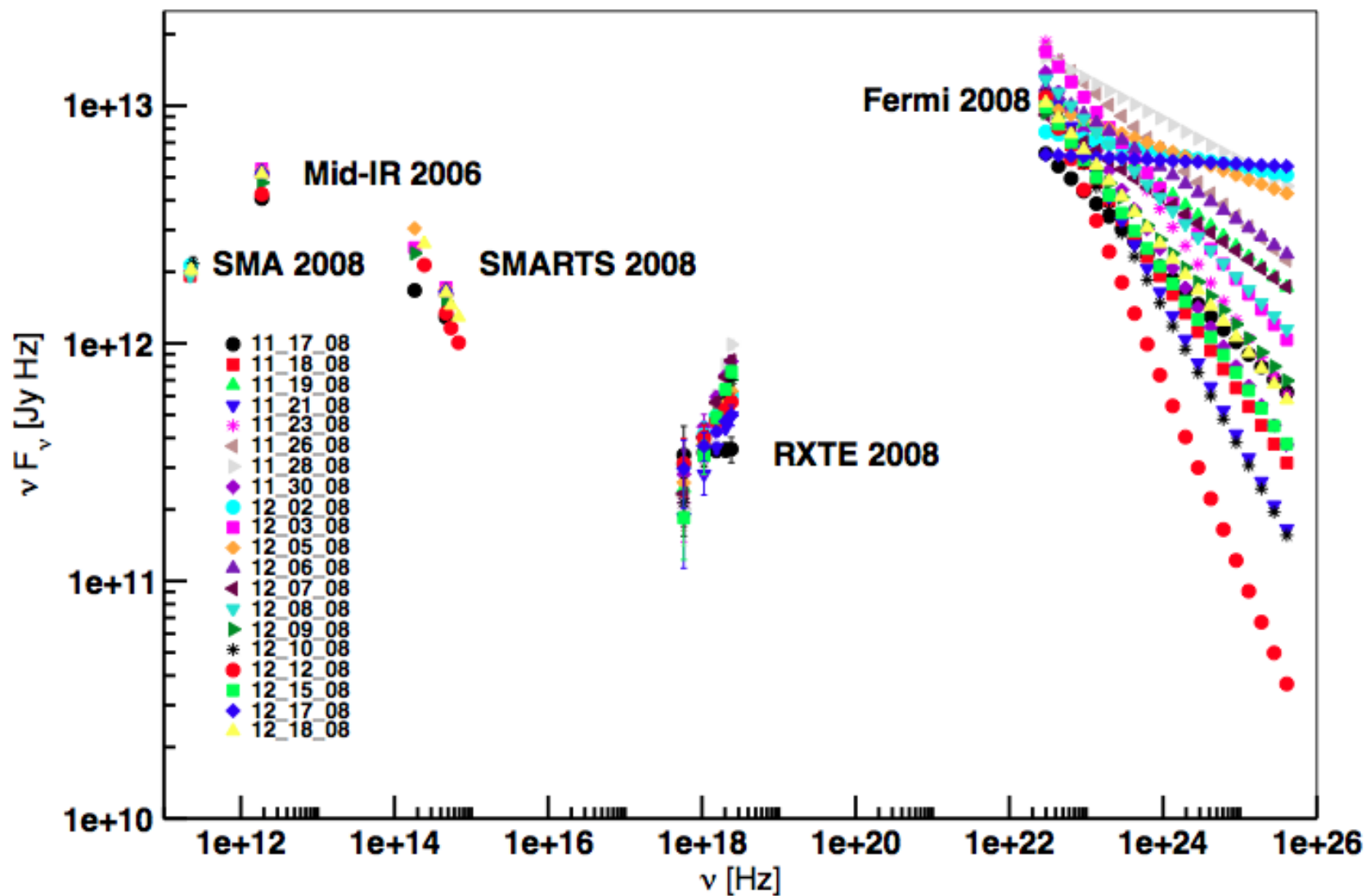


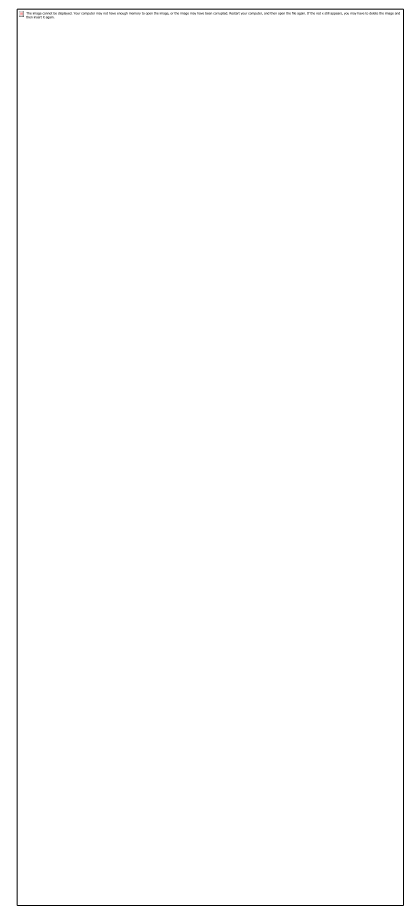
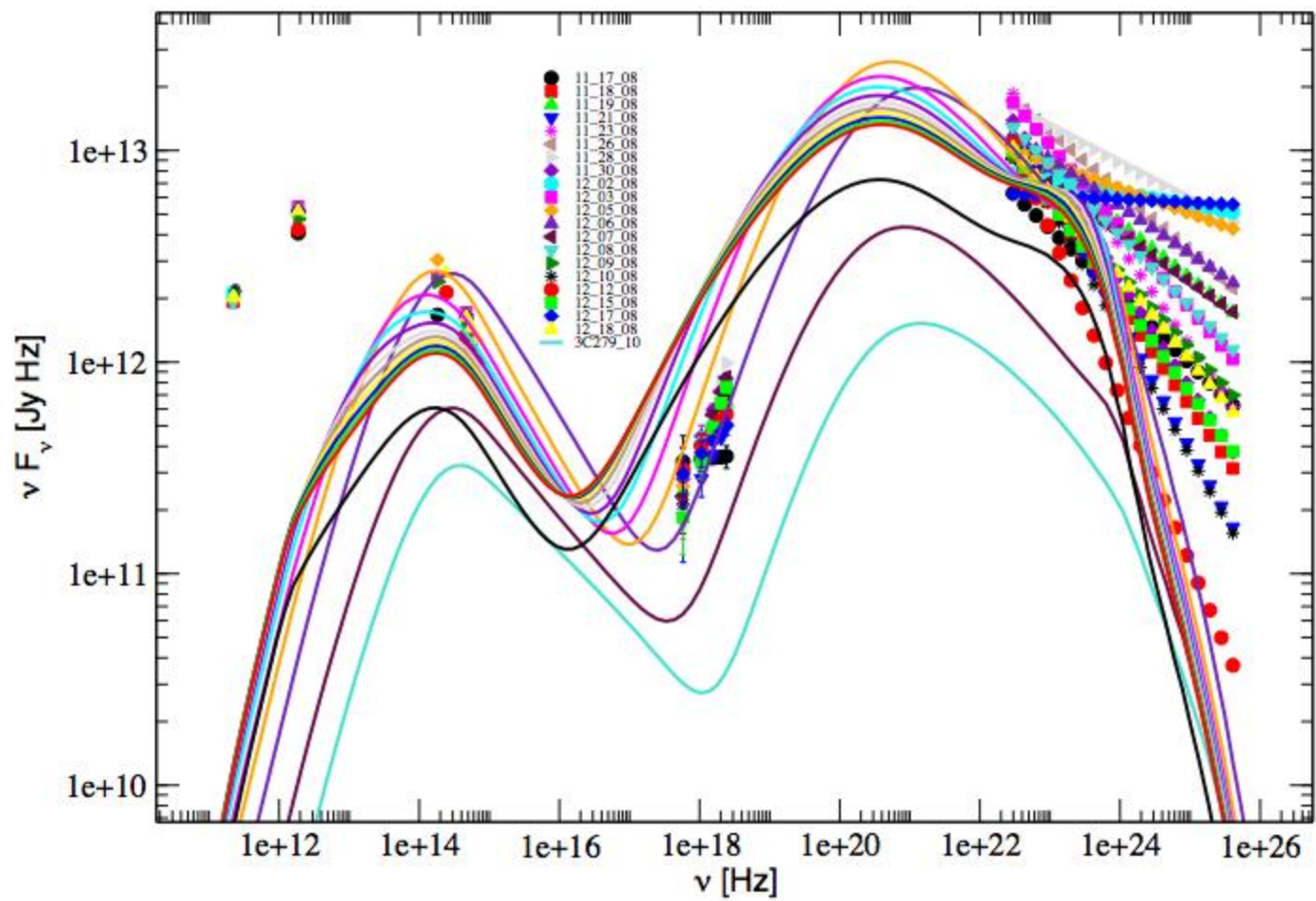
# Numerical Method



$$t_{acc}^{\gamma_{\max}} \leq t_{syn,cool}^{\gamma_{\max}} \Rightarrow \gamma_{\max} \leq \sqrt{\frac{3e}{B\sigma_T}}$$

$$\frac{r_L}{h_z} = \frac{m_e c^2}{eB} \frac{\sqrt{\gamma_{\max}^2 - 1}}{h_z} < 1$$







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# Conclusions

- Low  $\tau \sim 10^3$ , high Doppler factor,  $\delta \sim 10$ .
- Fitting optical & X-ray leads to  $p \sim 3.4$ .
- Multi-zone model - a step closer.

Saga continues.....

External Comptonization to be included.

Lots of simulations for a “perfect” fit.

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