

Misure di trasmittanza dei filtri fotometrici ANS



Scopo della relazione

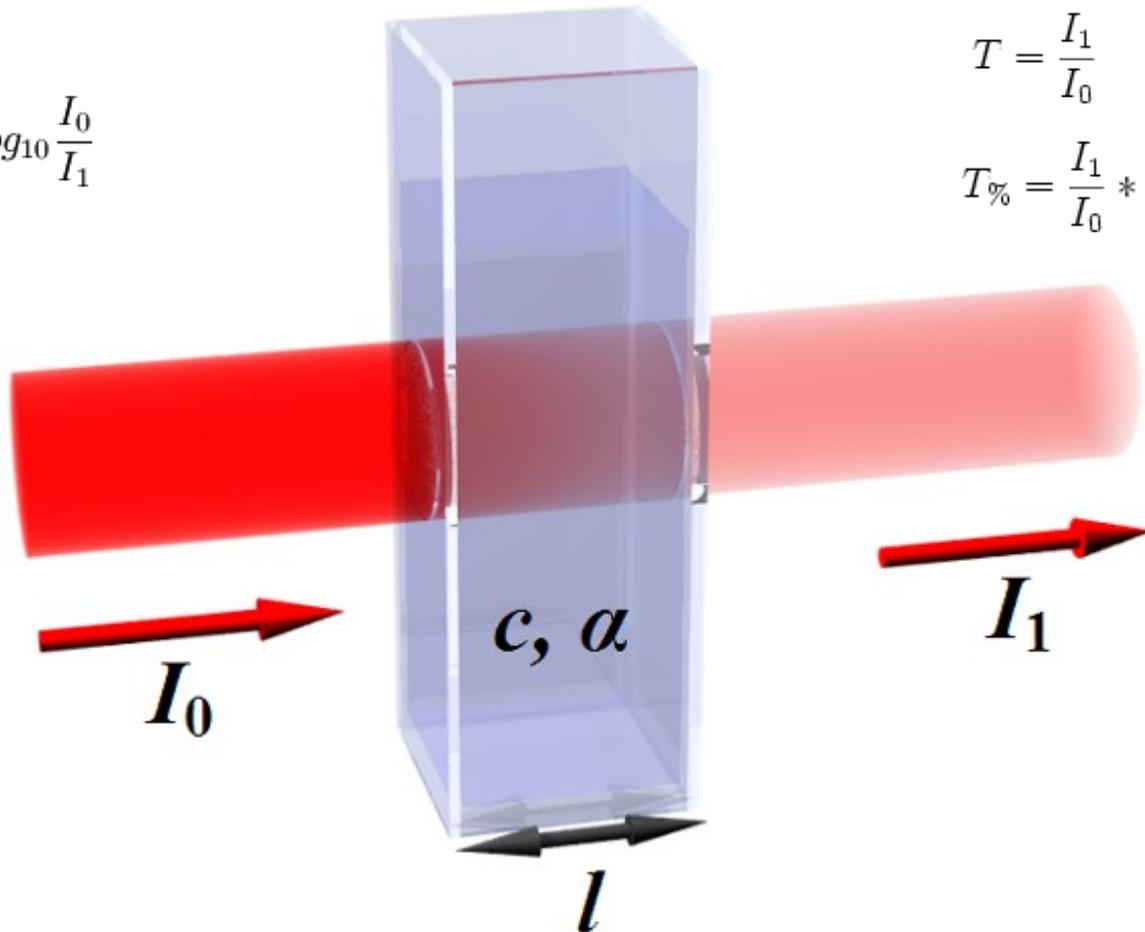
- Mostrare le modalità di controllo spettrofotometrico sui filtri del programma ANS
 - Analisi critica dei risultati conseguiti
-

Cos'è la Trasmittanza ?

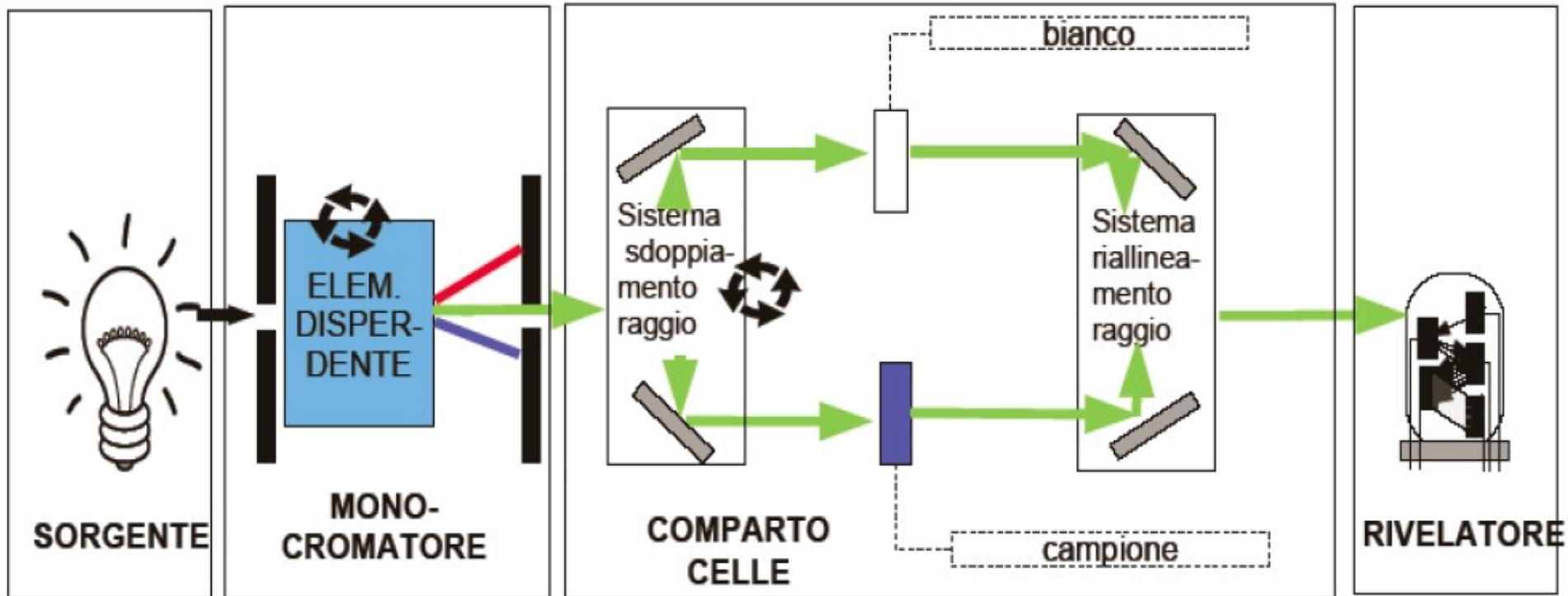
$$A = \log_{10} \frac{1}{T} = \log_{10} \frac{I_0}{I_1}$$

$$T = \frac{I_1}{I_0}$$

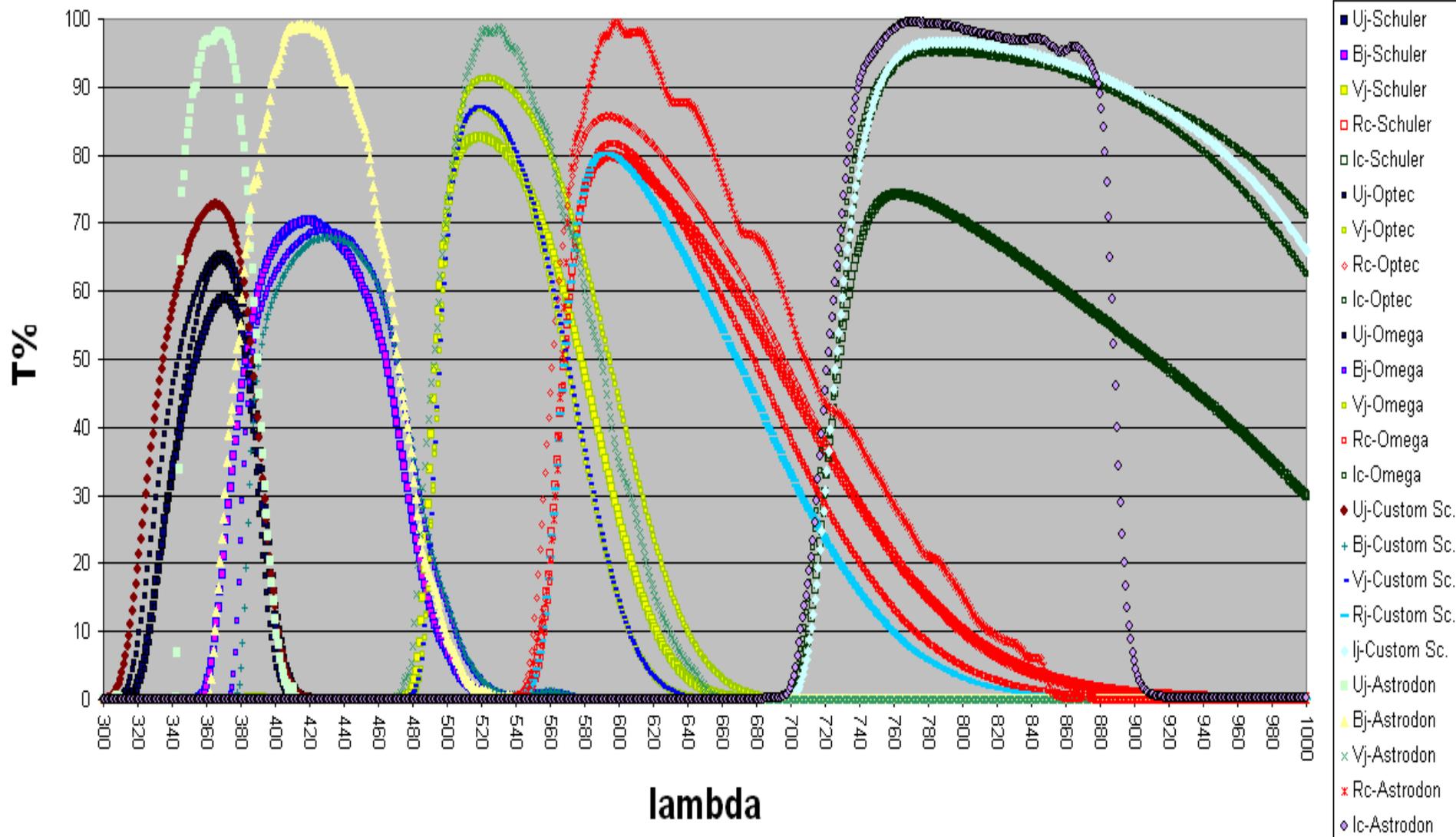
$$T_{\%} = \frac{I_1}{I_0} * 100$$



Come si misura la trasmittanza ?

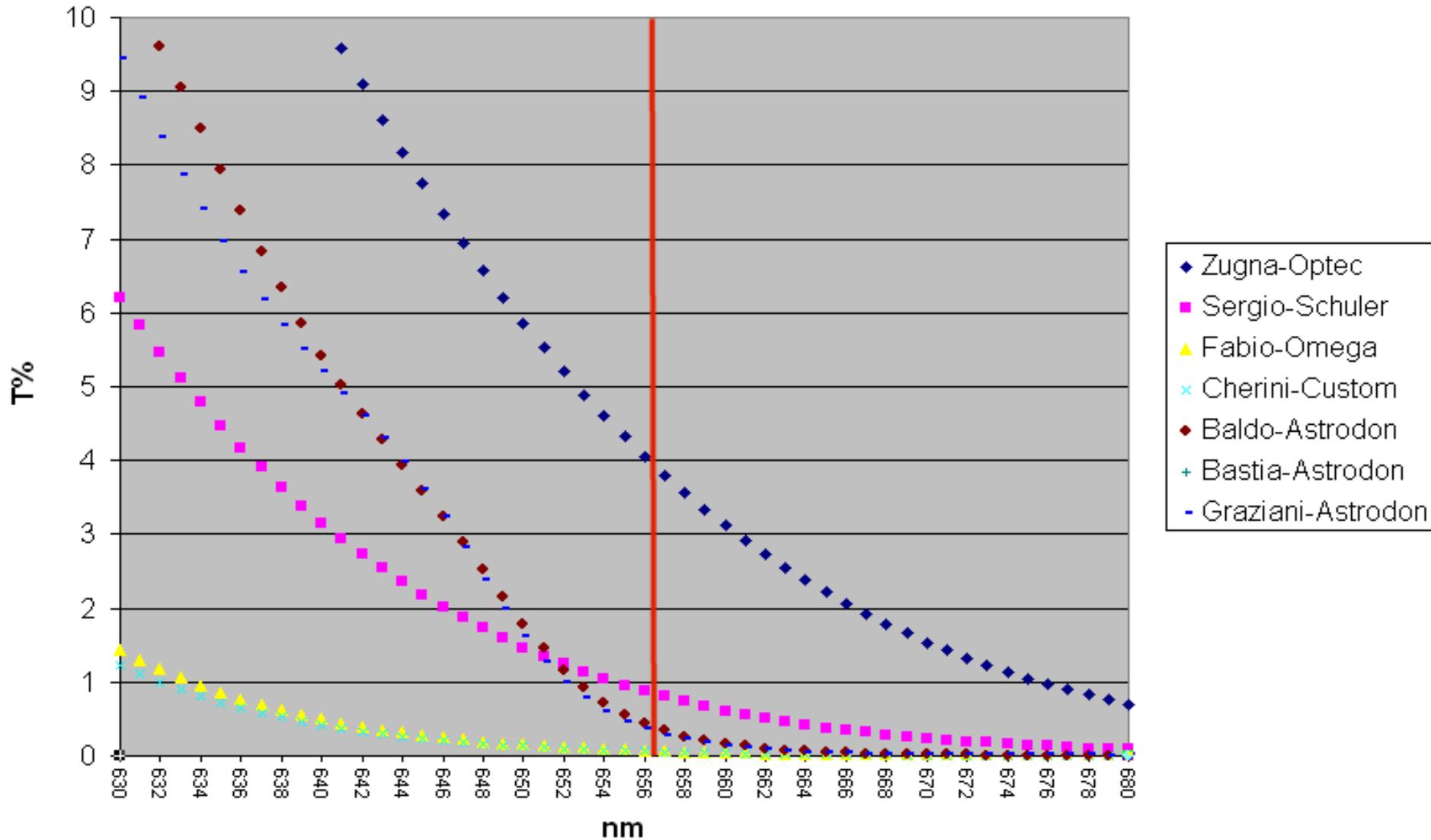


Trasmittanze set Filtri ANS



Filtri Vj ANS: Criticità su H α filtro Vj (6562.7Å)

Vj-Ans

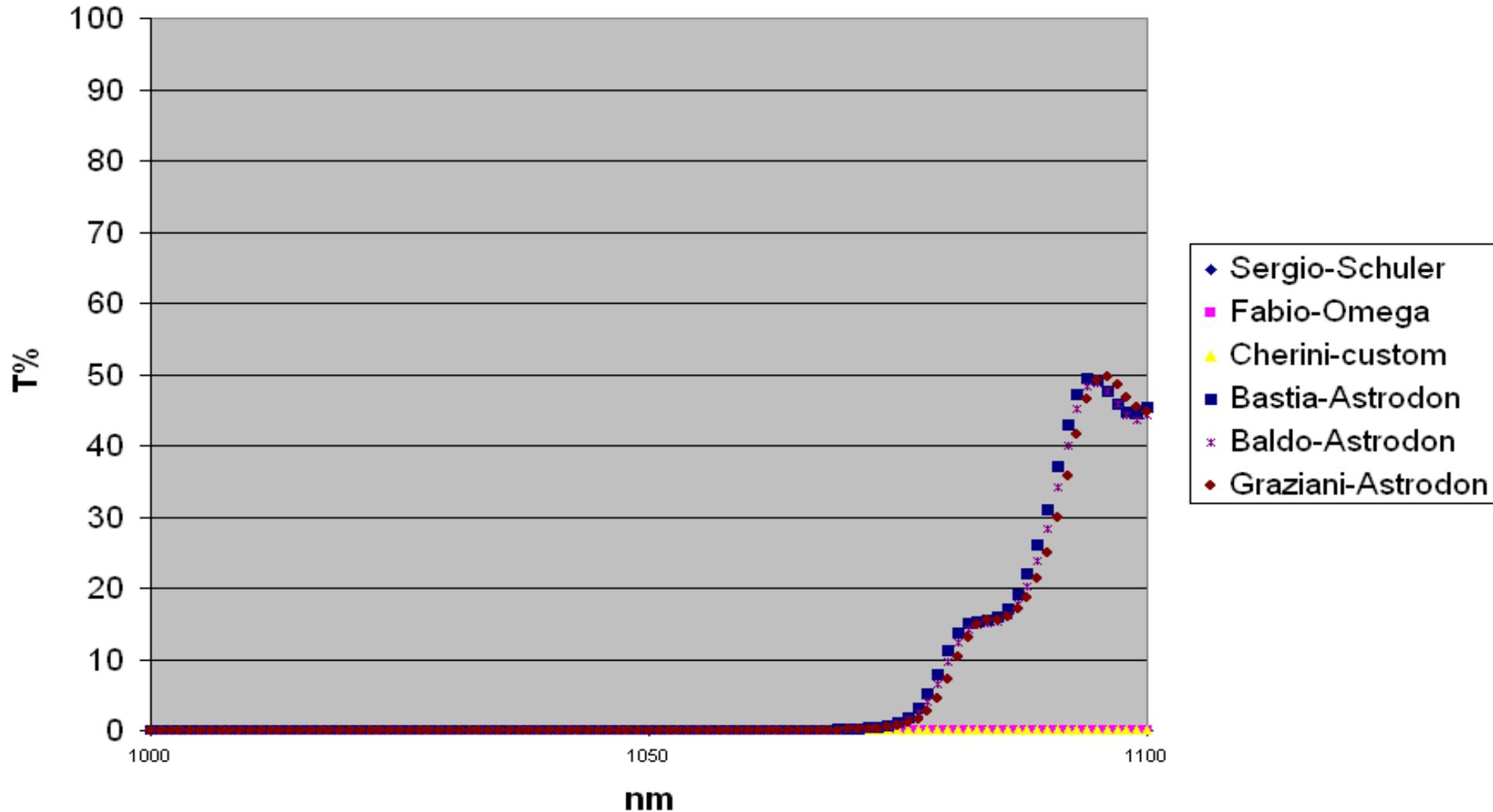


Trasmittanza filtri Vj a 6562A

- Omega Santa Lucia: 0.132%
 - Optec Monte Zugna: 4.05%
 - Omega Fabio:0.072%
 - Custom Cherini:0.059%
 - Schuler Bastia: 0.92%
 - Schuler Maitan: 0.91
 - Schuler Dallaporta: 0.88%
 - Astrodon Bastia: 0.39%
 - Astrodon Baldo: 0.43%
 - Astrodon Graziani:0.37%
-

Una sorpresa inattesa.....

Bj-ANS



CHARACTERIZING THE PHOTOMETRIC RESPONSE OF THE ANS COLLABORATION MONITORING PROGRAM

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Abstract. The ANS Collaboration uses the $UBVR_CI_C$ filters from various commercial manufacturers (Omega Optical, Custom Scientific, Schuler, Optec, Astrodon) for its ongoing photometric monitoring of symbiotic stars. We measured their transmittance profiles over the range 2000 \AA to $1.1 \mu\text{m}$ for various operating conditions, and we are monitoring their evolution over time. Their field performance in terms of color equations has been evaluated by analyzing the transformations from local to standard system of the 14602 observing runs so far collected on symbiotic stars with the ANS Collaboration telescopes. Ageing effects, red leaks and transmittance vs. angle of incidence are also evaluated.

Grazie per l'attenzione
