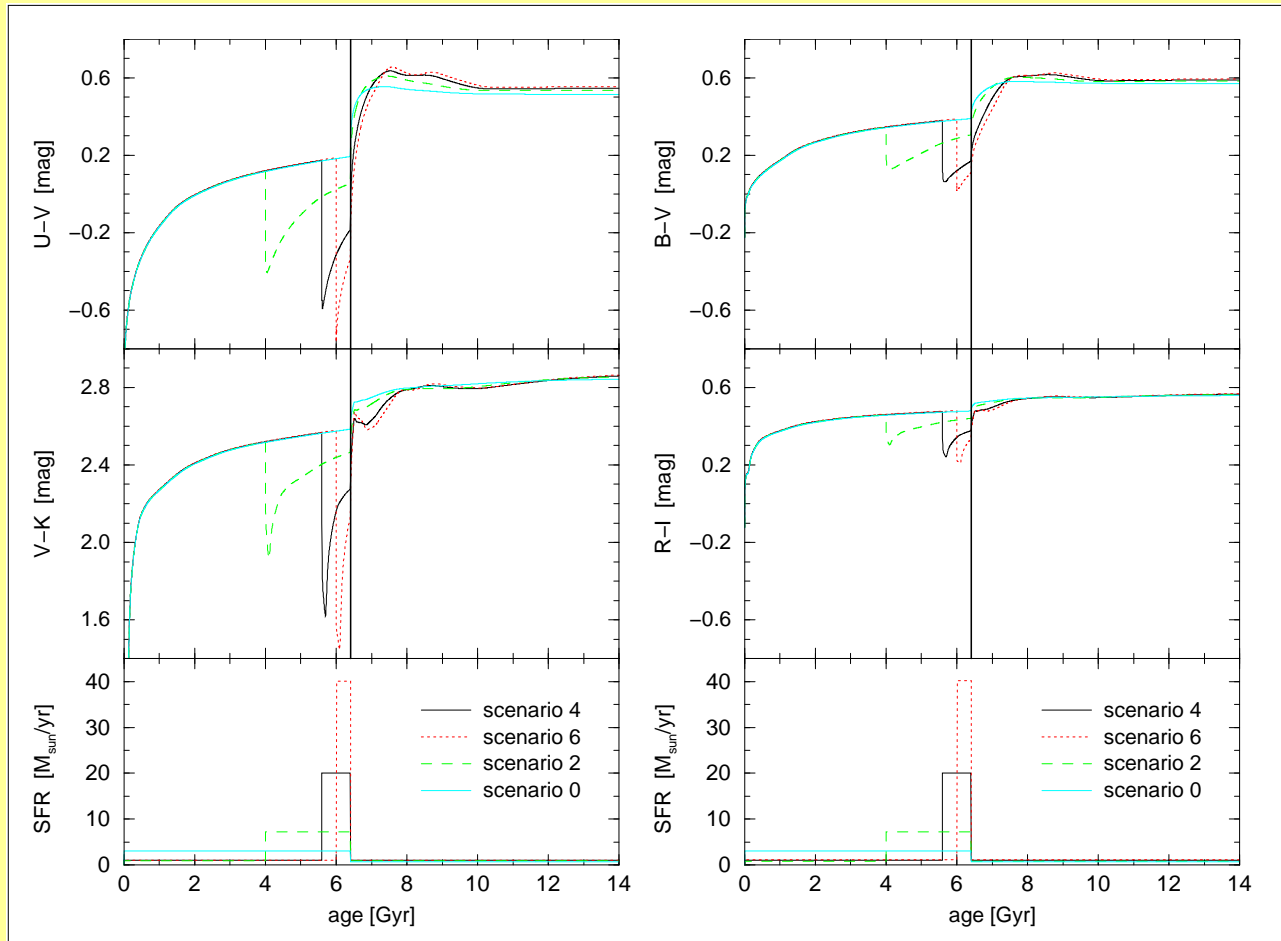


DO WE REALLY NEED FURTHER FINE-TUNING?
ABOUT DEGENERACIES IN INTEGRATED COLORS AND SPECTRA

Thomas Lilly, Uta Fritze-v. Alvensleben

- Broad-Band Colors 1 -



It is only possible to distinguish between different burst *strengths*.
Bursts of different *lengths* cannot be distinguished!

- Lookback time only 1 Gyr in most colors.
- Exception: U-V due to red giant stars (4 Gyrs).
- It is impossible to make any statement about the SFH *before* latest burst.

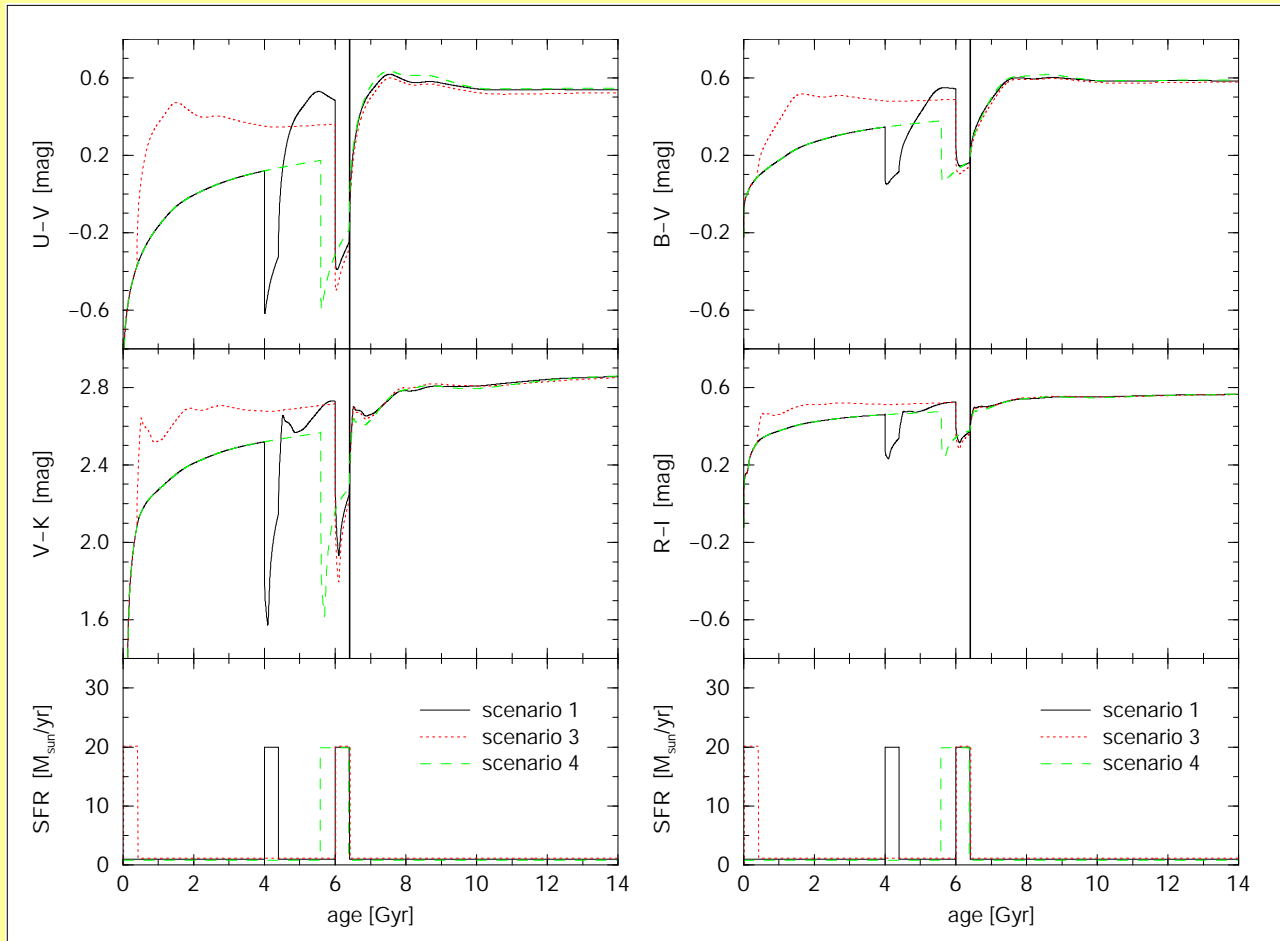
cf. astro-ph/0507305

(proceedings “Resolved Stellar Populations”, 2005, Cancun, Mexico)

DO WE REALLY NEED FURTHER FINE-TUNING?
ABOUT DEGENERACIES IN INTEGRATED COLORS AND SPECTRA

Thomas Lilly, Uta Fritze-v. Alvensleben

- Broad-Band Colors 2 -



It is only possible to distinguish between different burst *strengths*.
Bursts of different *lengths* cannot be distinguished!

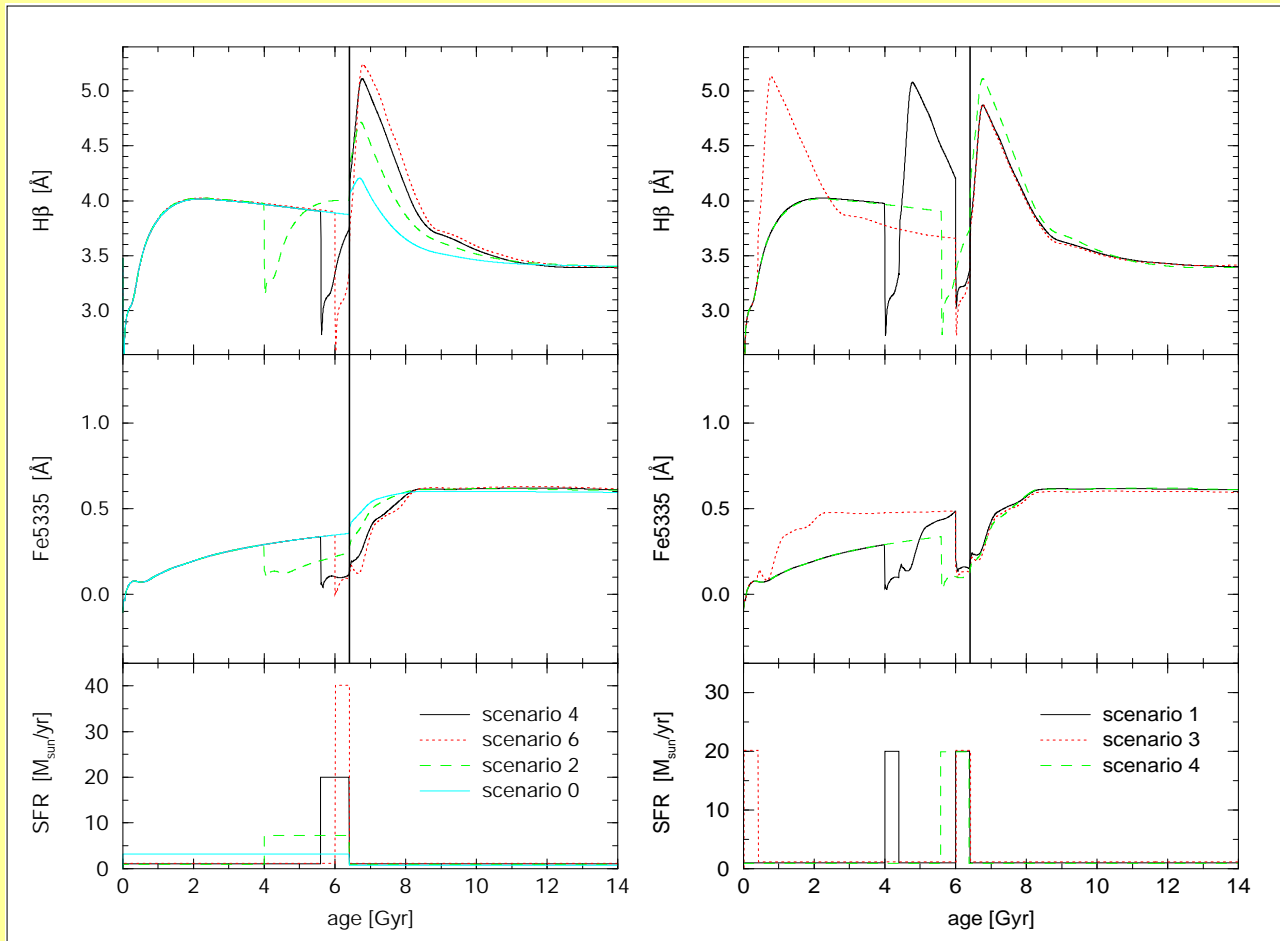
- Lookback time only 1 Gyr in most colors.
- Exception: U-V due to red giant stars (4 Gyrs).
- It is impossible to make any statement about the SFH *before* latest burst.

cf. astro-ph/0507305
(proceedings “Resolved Stellar Populations”, 2005, Cancun, Mexico)

DO WE REALLY NEED FURTHER FINE-TUNING?
ABOUT DEGENERACIES IN INTEGRATED COLORS AND SPECTRA

Thomas Lilly, Uta Fritze-v. Alvensleben

- Lick indices -



It is only possible to distinguish between different burst *strengths*.
Bursts of different *lengths* cannot be distinguished!

- Lookback time not larger than 4 Gyrs (and only for age-sensitive indices!)
- It is impossible to make any statement about the SFH *before* latest burst.

cf. astro-ph/0507305

(proceedings "Resolved Stellar Populations", 2005, Cancun, Mexico)