

# python-fsps: Flexible stellar population synthesis in Python




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## Software

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## Summary

Some words about FSPS generally, citing the literature (Conroy et al., 2010, 2009; Conroy & Gunn, 2010).

## Statement of need

Some words about why Python and the impact of the Python bindings.

## Example usage

Give some examples and maybe a figure ([Figure 1](#)) describing the usage.

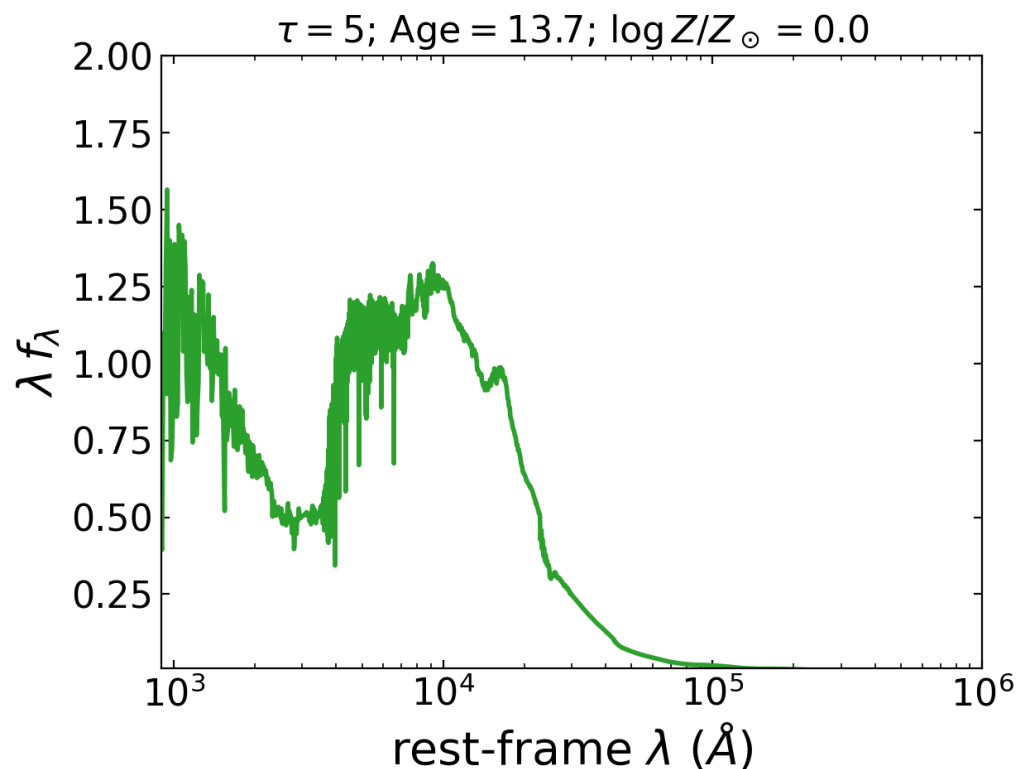


Figure 1: Here's an example figure.

## Acknowledgements

Add acknowledgements.

Besides the software cited above, `python-fsps` is also built on top of NumPy (Harris et al., 2020) and others?

## References

- Conroy, C., & Gunn, J. E. (2010). The Propagation of Uncertainties in Stellar Population Synthesis Modeling. III. Model Calibration, Comparison, and Evaluation. *The Astrophysical Journal*, 712(2), 833–857. <https://doi.org/10.1088/0004-637X/712/2/833>
- Conroy, C., Gunn, J. E., & White, M. (2009). The Propagation of Uncertainties in Stellar Population Synthesis Modeling. I. The Relevance of Uncertain Aspects of Stellar Evolution and the Initial Mass Function to the Derived Physical Properties of Galaxies. *The Astrophysical Journal*, 699(1), 486–506. <https://doi.org/10.1088/0004-637X/699/1/486>
- Conroy, C., White, M., & Gunn, J. E. (2010). The Propagation of Uncertainties in Stellar Population Synthesis Modeling. II. The Challenge of Comparing Galaxy Evolution Models to Observations. *The Astrophysical Journal*, 708(1), 58–70. <https://doi.org/10.1088/0004-637X/708/1/58>
- Harris, C. R., Millman, K. J., Walt, S. J. van der, Gommers, R., Virtanen, P., Cournapeau, D., Wieser, E., Taylor, J., Berg, S., Smith, N. J., Kern, R., Picus, M., Hoyer, S., Kerkwijk, M. H. van, Brett, M., Haldane, A., Río, J. F. del, Wiebe, M., Peterson, P., ... Oliphant, T. E. (2020). Array programming with NumPy. *Nature*, 585(7825), 357–362. <https://doi.org/10.1038/s41586-020-2649-2>