

Ideas for BLoND global default parameters

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Idea

- Use a set of default parameters, which are used ‘globally’ by all functions to provide consistency (e.g. bunch length type, fitting method, use μ or $\mu + 1/2$ as exponent for BinominalAmplitudeN profile...)
- Similar to `matplotlib rcParams`, which is essentially a dictionary with default values (also has lots of functionality, e.g. loading custom parameters from file)
- Parameters are passed as keyword arguments;
 - If not explicitly passed by the user, use value of `rcBLonDparams`
- Advantages
 - Use needs to change default value once and it’s used by all following functions (e.g. use RMS bunch length instead of $4\sigma_{FWHM}$)
 - User can still use a custom parameter for a single function call by explicitly passing this keyword argument
- Example: [iPython notebook](#)

Comments?