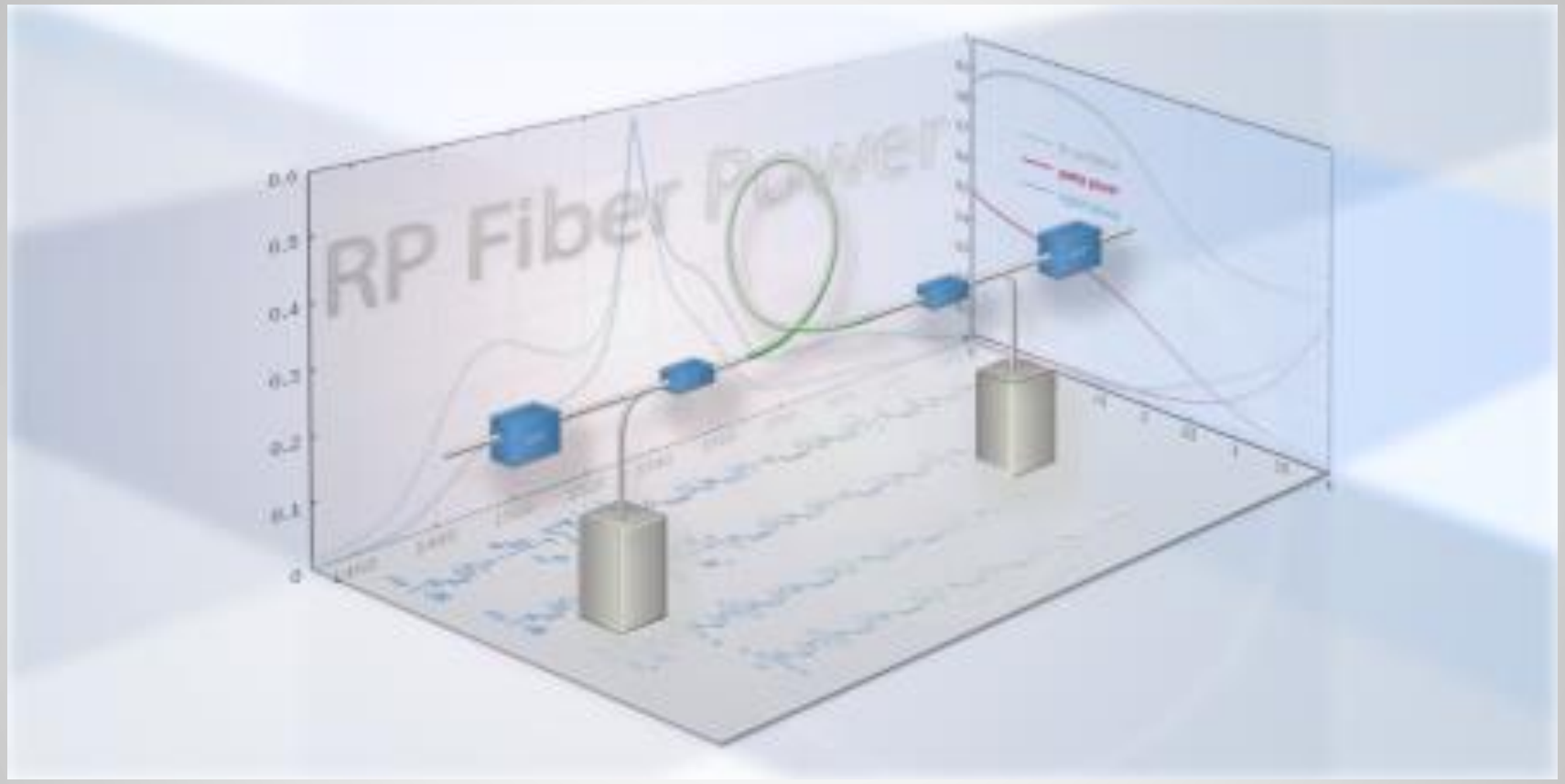
RP Fiber Power V8



a software product of

RP Photonics

www.rp-photonics.com/rp_fiber_power.html

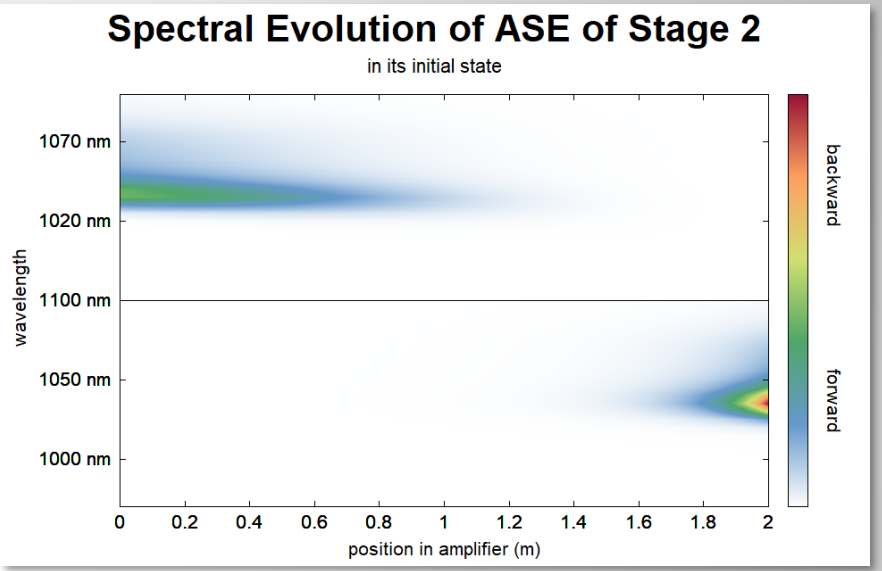
What are Simulations in Fiber Optics Good For?

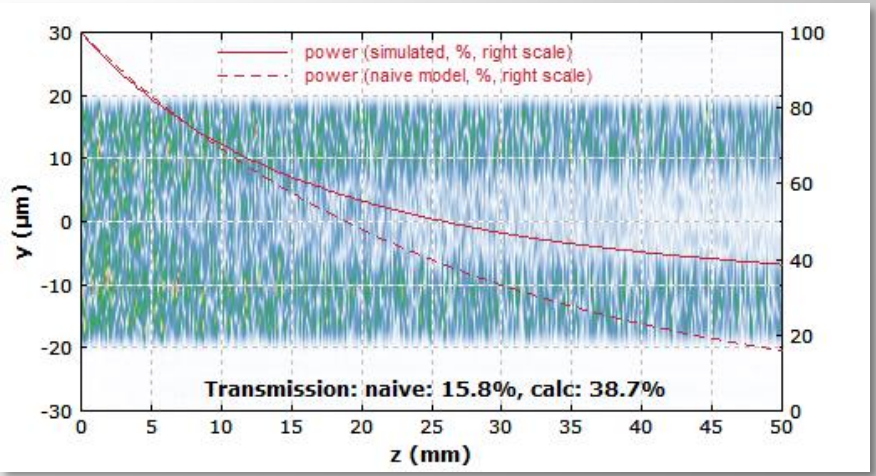
- Simulations **produce detailed insight into the inner workings** of devices – far more than measurements – and without much effort!
- That insight helps a lot:
  - Understand performance limitations and find optimized device designs.
  - Thoroughly check designs before buying the parts and building a prototype or an improved version.
  - Find out the cause of unexpected behavior.
  - Get inspired for new ideas when playing with a model.
- **Get quality results of your R&D work faster and cheaper!**
- Lab work stays necessary but is reduced and becomes more efficient.

The Most Powerful Simulation Tool

- Get deep insight: calculate fiber modes, simulate power propagation, full beam propagation, ultrashort pulses, laser dynamics, etc.
- Easily work with a graphical user interface, which is also highly flexible!
- Enjoy high-quality comprehensive documentation.
- Get reliable results and competent technical support.

- **RP Fiber Power offers all that. It is the industry-leading solution.**





Combining Usability and Flexibility

The traditional trade-off:

Form-based User Interface

- Easy to start.
- But: not sufficiently flexible for real work.

Scripting-based Approach

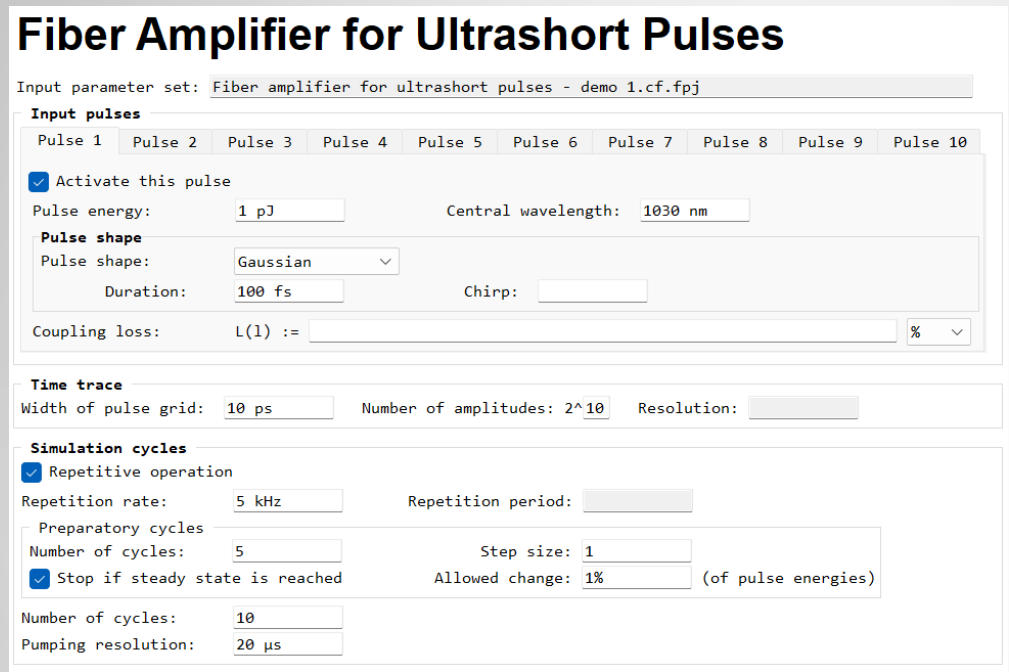
- Highly flexible. Can program about anything conceivable.
- But: substantially harder to learn.

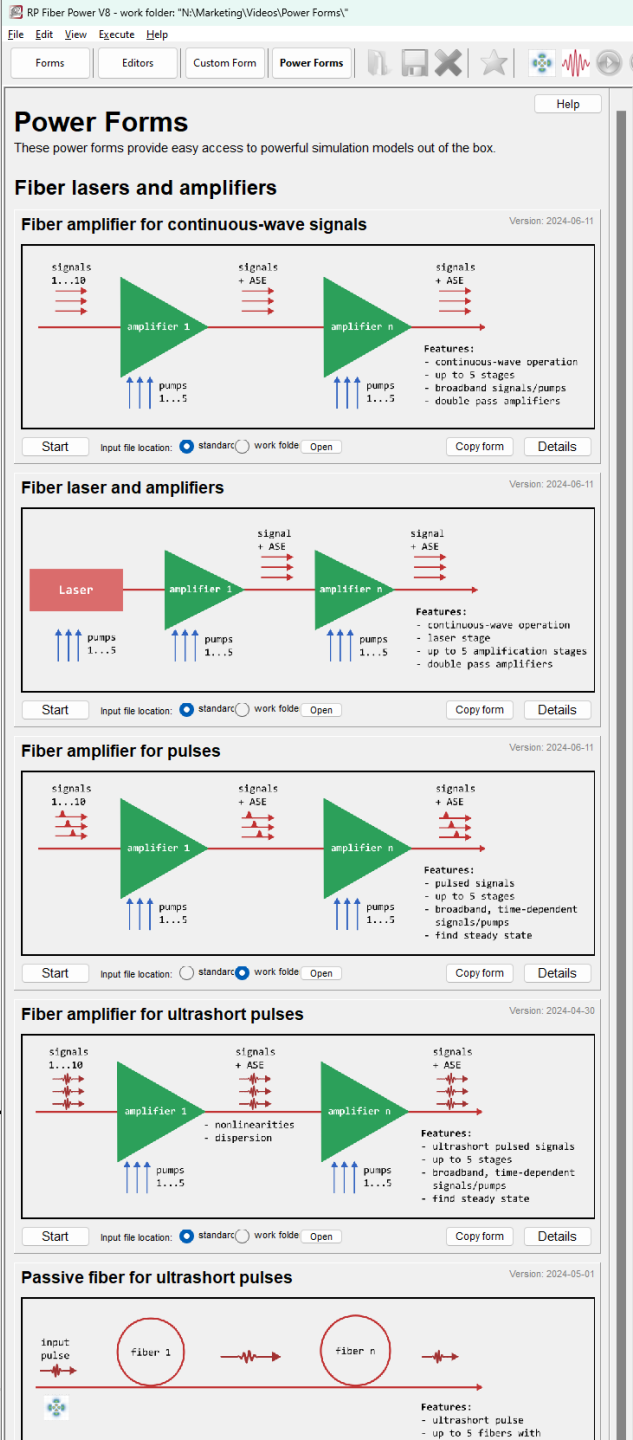
Our new solution: Power Forms for the main application areas:

- Easy to start: select the suitable form, fill it out, execute it.
- Great flexibility:
  - The forms provide many options.
  - For additional outputs, put a little script code into the form.
  - For even more flexibility: can make tailored versions of any of those forms!

The Power Forms

- Simply pick the suitable Power Form. Example:



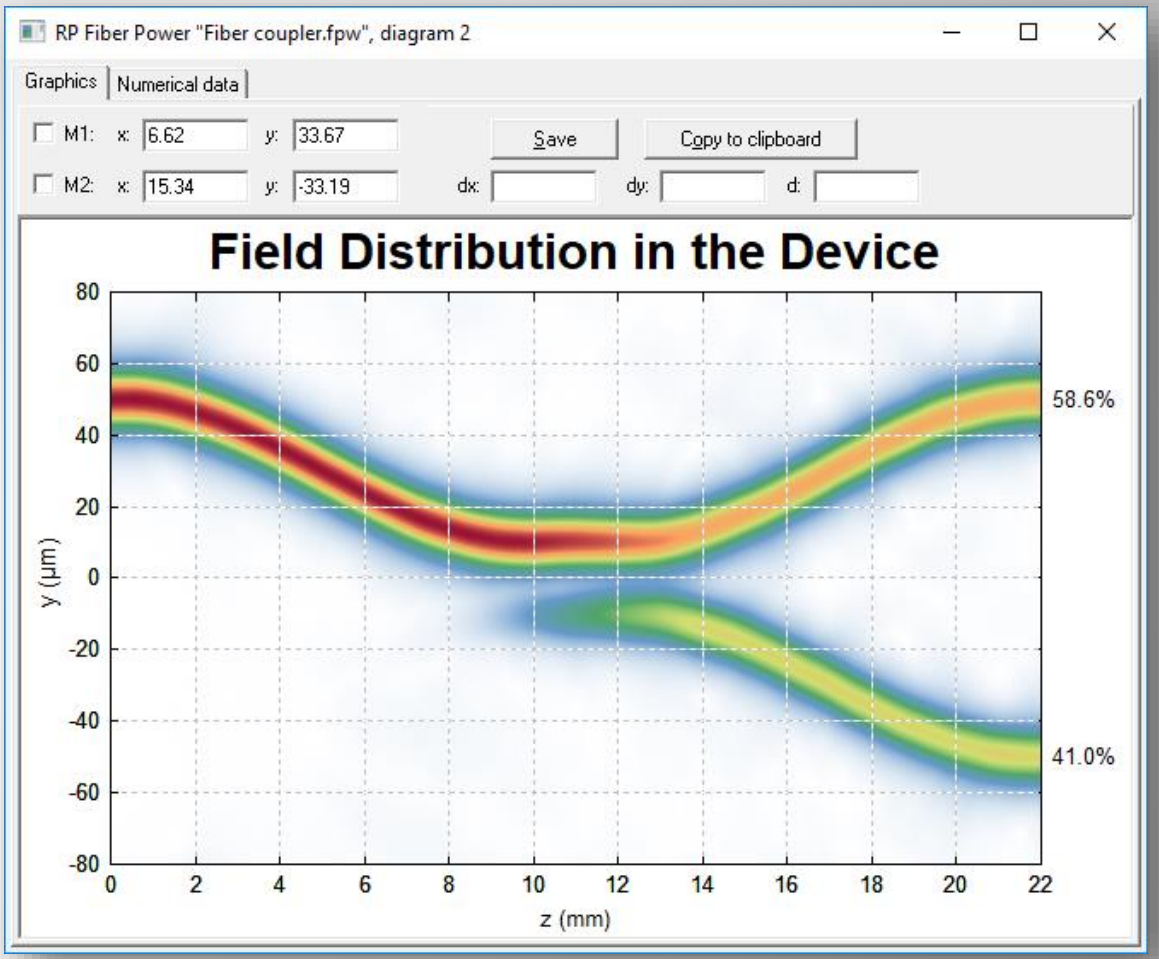


- The input data may be stored either in some standard folder or in your work folder.

Diagram Windows

Graphical output windows

- high-quality graphics, directly usable for publications:
  copy to clipboard or save to file
- can make animated graphics
- adjustable resolution
- markers for doing measurements
- export of numerical data

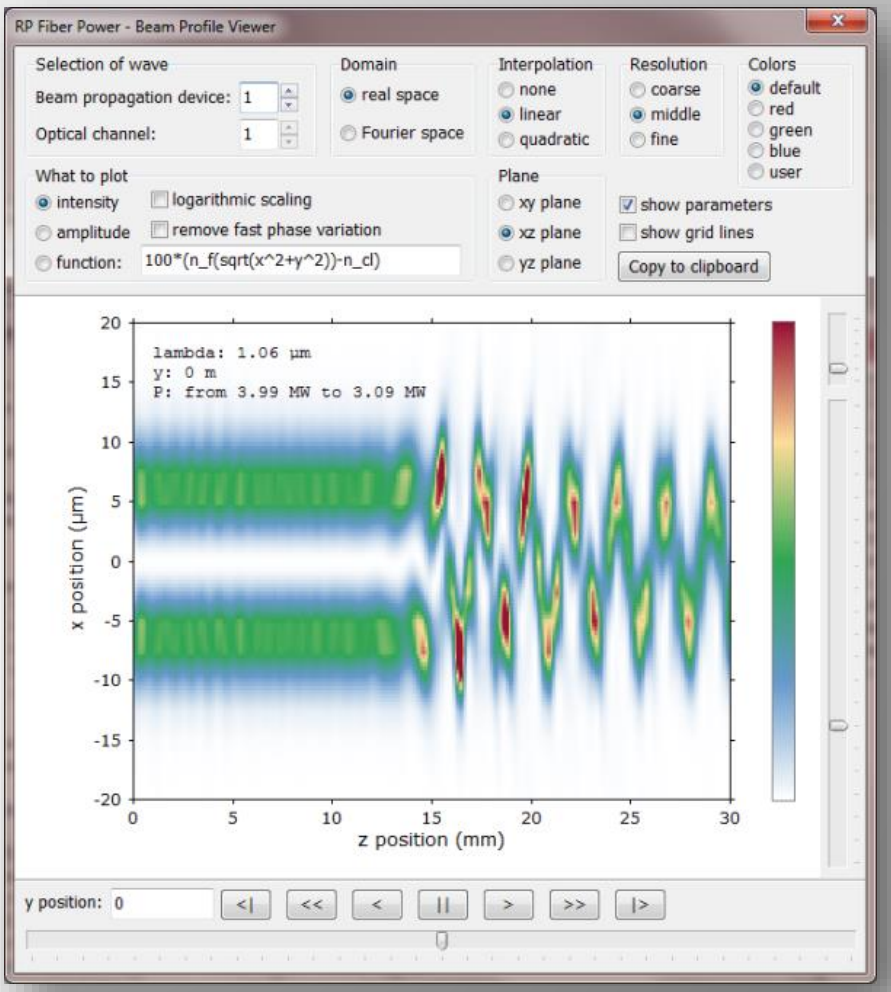


Also have flexible options for generating output in text form!

Put that into diagrams or files as you like.

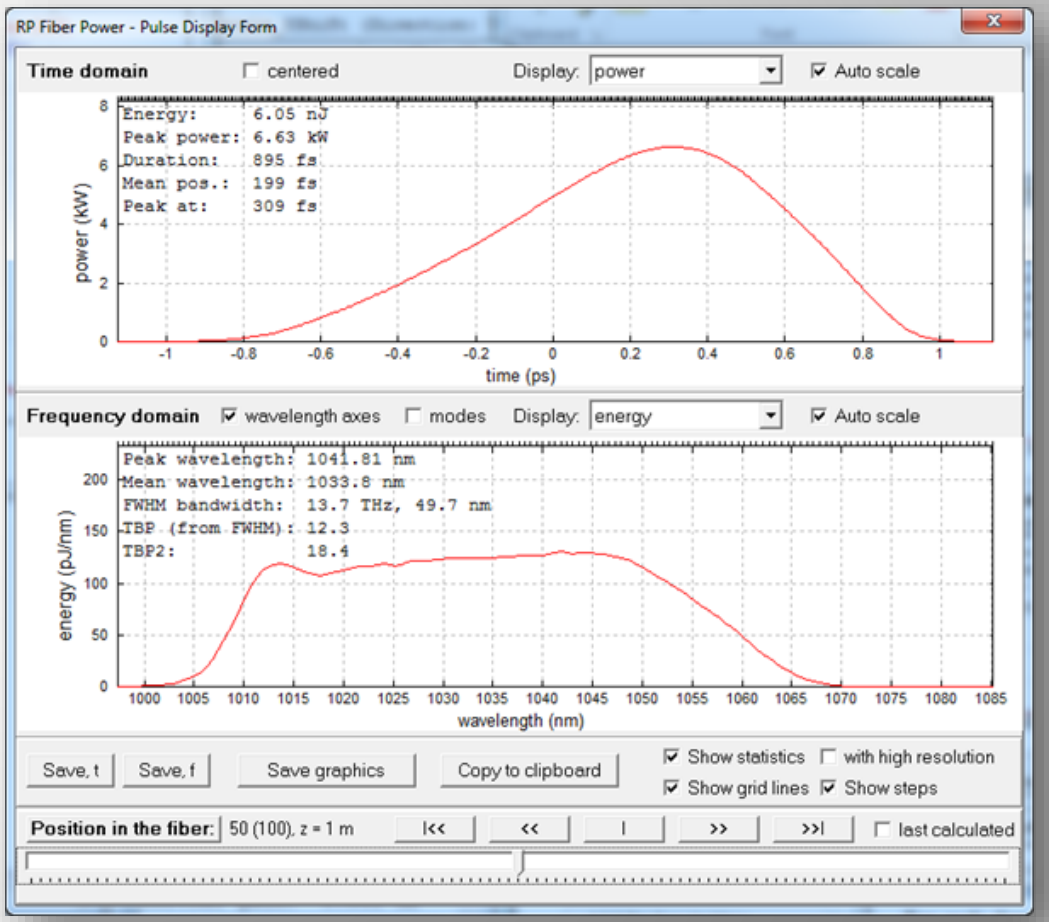
Beam Profile Viewer

- Inspect calculated beam profiles in numerical beam propagation.
- Switch between different wavelength components, displayed with different colors.
- Show profiles in xy, xz or yz plane.
- Change scaling or use logarithmic display in order to reveal weak satellites.
- Get parameters like center position and beam width displayed.



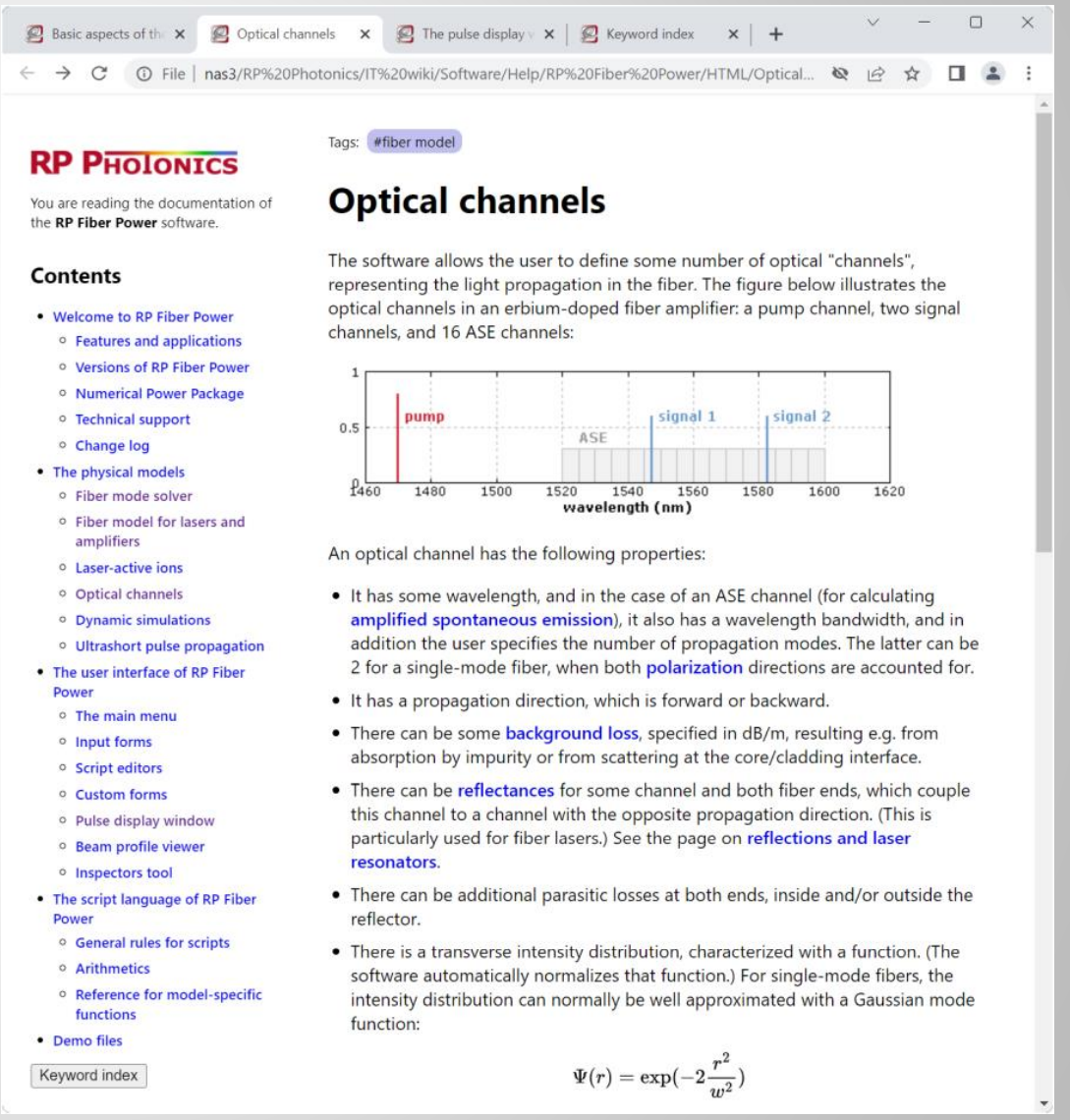
Pulse Display Window

- Browse the pulses along the fiber, or pulses stored in an array.
- Display a variety of properties in the time and frequency domain.
- Get pulse parameters such as energy, duration, peak power, bandwidth, time–bandwidth product, etc.



Documentation

- comprehensive **PDF manual**
- detailed **interactive help system** (displaying content in your web browser)
- comprehensive explanations of the used physical models, underlying assumptions, details of the script language, etc.
- dozens of **demo files**, demonstrating many different possibilities
- detailed explanations also for each Power Form



Technical Support

Any remaining technical issues can be addressed with the technical support:

The price for a **commercial user license** contains
8 support hours (non-commercial licenses: 4 hours).

The support is done by Dr. Paschotta, who is a distinguished expert in this area and has originally developed the software, and by Dr. Gareth Moore. They will make sure that you become another very satisfied user of the software!