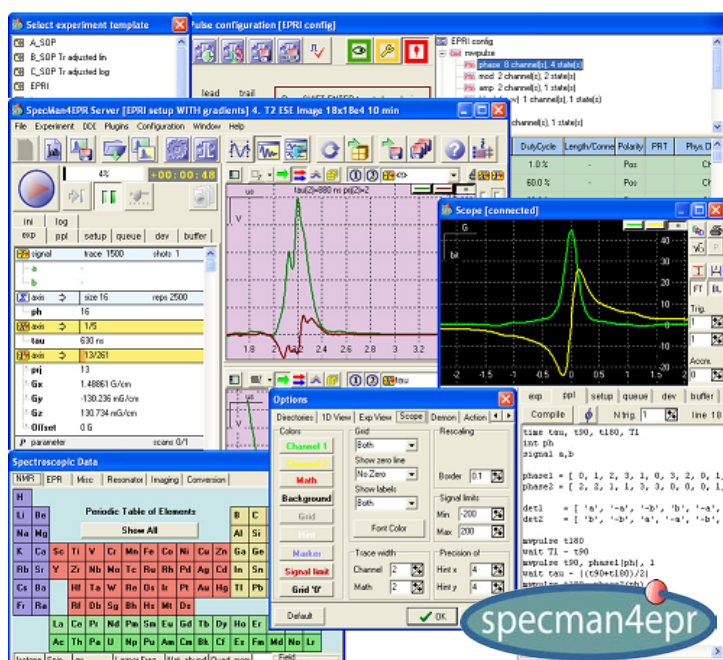


Specman4EPR: Software for Pulse and CW EPR Instruments

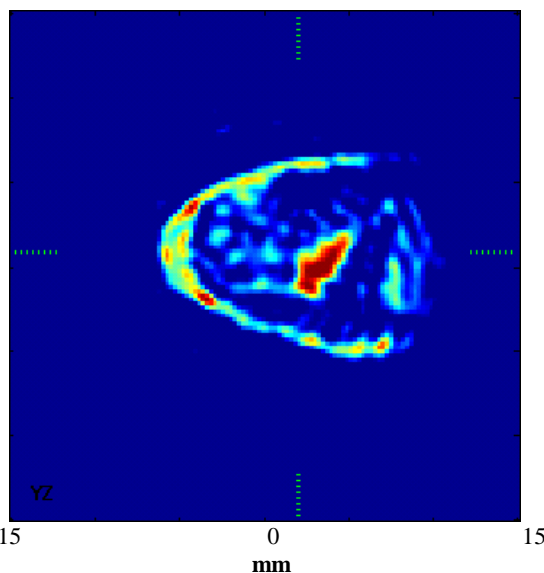
Connecting Spectrometers to People

Every EPR spectrometer or imager requires an instrument-controlling software. While commercial instruments are supplied with a software, the designers of the unique instruments face a challenge of software programming on their own. FeMi Instruments presents a solution to this problem:

- ◆ **SpecMan4EPR** a versatile control and acquisition software for pulse and CW EPR instruments¹
- ◆ **Friendly** user support, adaptation of software for changing needs during the lifetime of the instrument
- ◆ **Unified** user experience for different instruments, rapid learning curve
- ◆ **Compatible** with the commonly used devices and interfaces
- ◆ **Expandable** to new devices, including custom-built ones
- ◆ **Numerous** applications from low frequency imagers to high field DNP instruments



Front-end windows and dialogs of the **SpecMan4EPR**



A 300 μm slice of 3D EPR image of tumor bearing mouse leg obtained using SpecMan4EPR. 250 MHz pulse imager; 5 G/cm gradient; ~ 1200 projections; partially deuterated OX063 spin probe; 50 min acquisition time.

- ◆ **NEW!** Version 2.5 of Pulse Programming Language adapted for Arbitrary Waveform Generators
- ◆ **NEW!** AWG pulse commands and pattern libraries
- ◆ Device-independent pulse programming language; acquisition of multiple time traces during single pulse sequence; highly-optimized reprogramming time.
- ◆ Four-dimensional experiments; linear, logarithmic or table-based definition of ANY device or experiment parameter.
- ◆ Remote control over LAN or Internet; **TCP-IP interface to LabView™ modules.**
- ◆ In-scope Fourier transformation and baseline correction; time-trace baseline subtraction.

Related products

- ◆ Complete acquisition console for EPR spectrometer
- ◆ Custom PCB boards
- ◆ MATLAB data processing code



<http://specman4epr.com/>
<http://femi.specman4epr.com/>



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¹Epel B. *et al.*, Concepts in Magnetic Resonance, **26B**, 36 (2005)