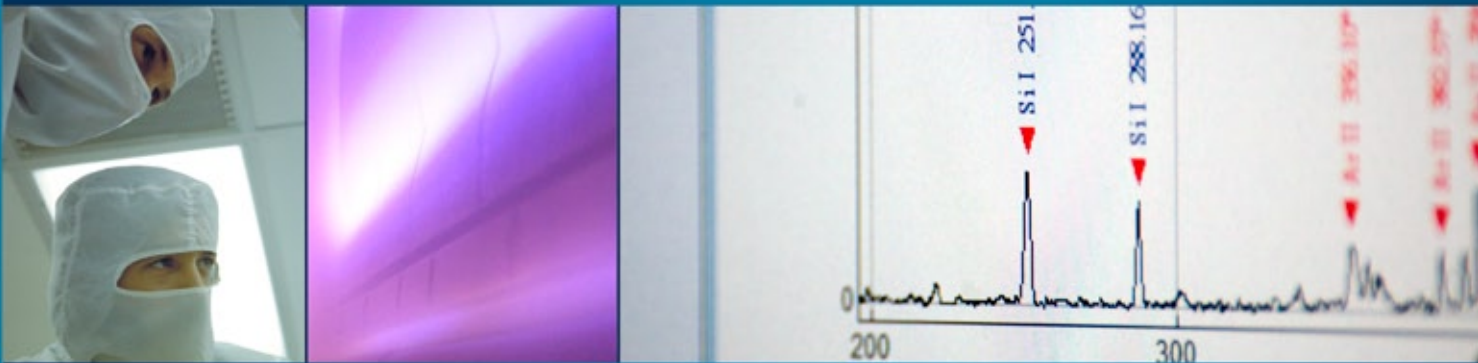


SPECLINE

SPECTRAL LINE IDENTIFICATION FOR ATOMS AND MOLECULES



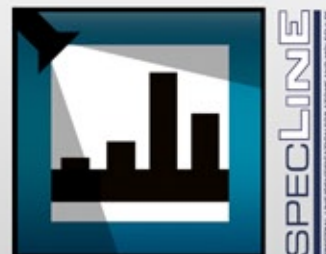
PLASUS SPECLINE FEATURES:

- EXTENSIVE DATABASE FOR ATOMS, IONS AND MOLECULES
- IDENTIFICATION AND EVALUATION OF SPECTRAL DATA
- DIRECT DATA IMPORT OF COMMON SPECTROSCOPIC FILE FORMATS

peak finding +++

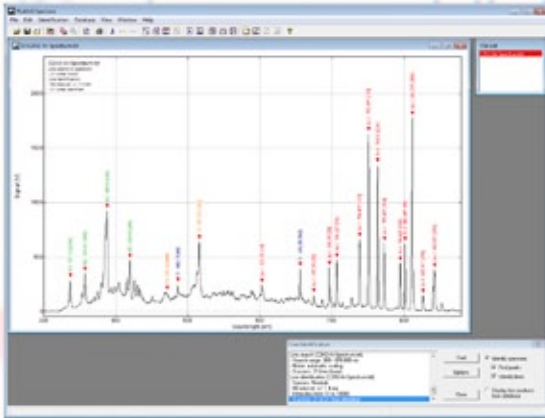
line identification +++

atoms and molecules +++



Powerful software tool for analyzing spectral data.
Designed and developed by PLASUS.

PLASUS SpecLine is the most powerful software tool for evaluating your spectral data. The unique database for atoms and molecules makes line identification fast and easy. Many evaluation functions will support you in analyzing and comparing your spectra. All common spectroscopic file formats are supported.



Line identification

Identification of atoms, molecules and their ions using the included database.

Automatic peak finding

Search algorithms for peak finding in the spectra.

Comparison of measured data

Several spectra - even with different file formats - can be overlaid and compared.

Data evaluation

Data smoothing, integral, scaling, peak value calibration, arithmetic of spectra (+, -, *, /).

Selection for database search

Periodic table for atoms, molecule list box, neutrals, ions, wavelength and intensity range.

Database versions

A: atoms and ions

AM: atoms, ions and most of two-atomic molecules

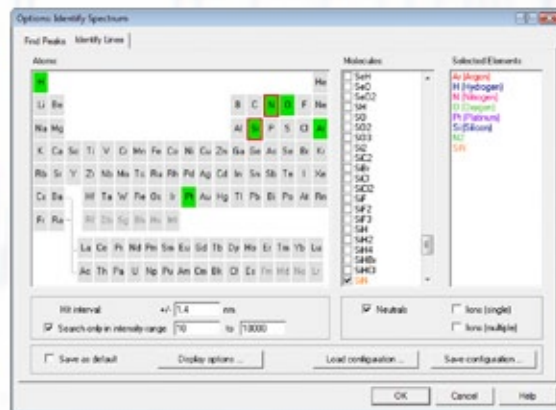
AMS: all available atoms, molecules and ions

Configuration files

Saving and loading of search parameters.

SpecLine file format

File format containing spectrum as well as line identification data.



Line [nm]	Element	I [rel.]	Energy [eV] lower - upper	Transition lower - upper	Quantum number lower - upper	Comment
422.075	Ar ¹⁺	4	11.55 - 14.90	4s ² 1D ² - 3p ² 1D ²	2 - 0	
423.100	Ar ¹⁺	1	11.55 - 14.90	4s ² 1D ² - 3p ² 1D ²	2 - 1	
423.802	Ar ¹⁺	4	11.62 - 14.74	4s ² 1D ² - 3p ² 1D ²	1 - 0	
425.827	Ar ¹⁺	2	11.62 - 14.50	4s ² 1D ² - 3p ² 1D ²	1 - 2	
427.249	Ar ¹⁺	3	11.62 - 14.52	4s ² 1D ² - 3p ² 1D ²	1 - 1	
430.270	Ar ¹⁺	2	11.62 - 14.51	4s ² 1D ² - 3p ² 1D ²	1 - 2	
433.200	Ar ¹⁺	3	11.62 - 14.89	4s ² 1D ² - 3p ² 1D ²	1 - 2	
433.830	Ar ¹⁺	2	11.62 - 14.89	4s ² 1D ² - 3p ² 1D ²	1 - 1	
434.160	Ar ¹⁺	1	11.62 - 14.89	4s ² 1D ² - 3p ² 1D ²	1 - 1	
434.040	H	10	10.20 - 10.20	2p ² 1P ¹ - 3d ² 1D ²	1n - 11n	
431.420	Cl ¹⁺	1000	0.00 - 2.67	3p ² 1P ¹ - 4d ² 1D ²	0 - 0	Q-Head
432.400	Cl ¹⁺	600	0.00 - 2.67	3p ² 1P ¹ - 4d ² 1D ²	0 - 2	Q-Head
422.200	N ₂	600	7.26 - 11.20	2P ² 1P ¹ g - 2P ² 1P ¹ g	6 - 2	2. Pos. System
424.870	N ₂	500	7.26 - 11.20	2P ² 1P ¹ g - 2P ² 1P ¹ g	5 - 1	2. Pos. System
431.800	N ₂	220	0.00 - 8.22	3P ² 1P ¹ g - 4P ² 1P ¹ g	12 - 1	Vogel-Kaplan-System
434.300	N ₂	400	7.26 - 11.20	2P ² 1P ¹ g - 2P ² 1P ¹ g	4 - 0	2. Pos. System

Database information

Wavelength, oscillator strength, designation, transition probabilities, energies and quantum number of upper and lower level.

Data import

Data import formats: ASCII, Binary, EMICON, GRAMS, Ocean Optics, 4SPEC, MAPS, DaVis, WinSpec, AvaSoft, Hamamatsu and more.

Data export

Data export to ASCII, Binary and Excel(CSV) format, graphic export to BMP, WMF and WPG format.

More information and a free trial version are available on our website: www.plasus.de.

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