News CadnaR Update 2.1

Calculation / Configuration

- frequency range extended to 9 octaves (31.5 Hz to 8000 Hz, adjustable range)
- calculation of the room impulse response at receiver points (resulting diagram shows regression lines depending on the selected room acoustical parameter)
- several room acoustical parameters selectable (T30, T20, T10, EDT, D50, C50, C80, STI, STIPA, Alcons%, CSI)
- particle model: calculation up to the 500-th order
- particle model: emission of particles per octave band (with energy-dependent number of particles)
- particle model: considering the directivity of point sources by the number of particles
- particle model: time-dependant course of the particle emission displayed in 3D ("particle-ping-pong")
- loading and saving the configuration of calculation (file extension *. CNICONF)

CadnaR Objects

- all objects: new action "Convert to" on dialog **Modify Objects**
- for objects Barrier, Box-type Obstacle, Box-type Source: absorption coefficient, scattering coefficient and transmission factor can be referenced to the libraries
- new object type Bitmap (providing a variety of bitmap formats)
- object Bitmap: button on toolbar to toggle the display of Bitmaps
- Object Point Source: optional directivity editable as in **CadnaA** (symmetrical to axis, 15° increments, with interpolation, pasted via clipboard)

Further New Features / Miscellaneous

- local/global libraries and Library Manager added (for spectrum types: sound power, sound transmission, absorption coefficient, scattering coefficient)
- INI file can be accessed via menu **Tables/Miscellaneous**
- grid caption available in 3D View