**Schindler’s equation**,

|  |  |  |
| --- | --- | --- |
|  |  | (1) |

where *xi* is the time series of each electrode and is the sampling time.

**The spectral entropy (SE)**, is the Shannon entropy of the full signal power spectrum, was calculated as an indicator of the signal spectral content. The SE was calculated in the following way. Firstly the normalized power spectrum *nPSi* was estimated for each electrode’s time series *xi*

|  |  |  |
| --- | --- | --- |
|  |  | (1) |

where *PSi(fl)* is the power spectrum of *xi* and the sum runs all over the full spectrum of frequencies *fl*. Secondly, the Shannon entropy of this “probability distribution” was calculated

|  |  |  |
| --- | --- | --- |
|  |  | (2) |

where *SEi*is the spectral entropy for channel *i*. The average of the *SE* for a set of electrodes i.e. the whole network electrodes or a particular region, was finally calculated as

|  |  |  |
| --- | --- | --- |
|  |  | (3) |