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Python package to compute Kramers-Kronig relations through Fourier transforms.

See more details at ReadTheDocs.io.
1.1 kk package

Functions to compute Kramers-Kronig relations.

1.1.1 Submodules

kk.fft module

Functions to compute Kramers-Kronig relations through Fourier transforms.

\begin{verbatim}
kk.fft.pure2kk (a, n=None, axis=-1)
    Compute frequency response function of a complex-valued time response.
    Input should be its real or 1j*imaginary part. Input should be ordered like numpy.fft.ifft function.
\end{verbatim}

\begin{verbatim}
kk.fft.pure2rkk (a, n=None, axis=-1)
    Compute frequency response function of a real-valued time response.
    Input should be its real or 1j*imaginary part. Input should be ordered like numpy.fft.irfft function. Note that the
    frequency response function is hermitian symmetric.
\end{verbatim}

kk.utils module

Utility functions.

\begin{verbatim}
kk.utils.pad (a, n, axis=-1)
    Pad a frequency response with zeros at lowest and highest frequencies.
    Input should be ordered like numpy.fft.ifft function.
\end{verbatim}

\begin{verbatim}
kk.utils.pad (a, n, axis=-1)
    Pad a frequency response with zeros at highest frequencies.
    Input should be ordered like numpy.fft.irfft function.
\end{verbatim}
All notable changes to this project will be documented in this file.
The format is based on Keep a Changelog and this project adheres to Semantic Versioning.

2.1 Unreleased

2.1.1 Added
2.1.2 Change
2.1.3 Deprecated
2.1.4 Removed
2.1.5 Fixed

2.2 [1.0.0]

2.2.1 Added

• Kramers-Kronig algorithm through Fourier space
CHAPTER 3

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