

rwsurf

A Fourier representation for the winding surface is read from file.

[called by: [xoptim.](#)]

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1.1 overview

1. The Fourier harmonics of the winding surface are required in `winding.surface`. The format of this file is as follows:

```
wmn wNfp ! integers
wim(1:wmn) ! integers: poloidal mode identification;
win(1:wmn) ! integers: toroidal mode identification;
Rwc(1:wmn) ! real : cylindrical R cosine harmonics;
Rws(1:wmn) ! real : cylindrical R sine harmonics;
Zwc(1:wmn) ! real : cylindrical Z cosine harmonics;
Zws(1:wmn) ! real : cylindrical Z sine harmonics;
```

2. Note that immediately after reading (and broadcasting) `win`, the field periodicity factor is included, i.e. `win = win * wNfp`.

3. The winding surface, $\mathbf{x}_W(\theta, \zeta)$, is constructed in [windsf](#).