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## slowness vespagram

**command:** VESPA <slow1> <slow2> <slowstep> <azim> <power>

Computes vespagram from all traces of the display. For each slowness value from <slow1> to <slow2> in steps of <slowstep> a beam trace is computed (using azimuth <azim>). On the summation the <power>-th root process is applied. <power>=1 means plain summation. The input traces are hidden after execution of this procedure. To get them back, enter the command "DISPLAY h:all". Each output trace corresponds to a slowness value. The slowness is given in the "comment"-entry of the trace. It is convenient to switch the trace info text to "comment" by the command "TRCTXT ^comment (\$x)".

### parameters

- <slow1>, <slow2> *parameter type: real*  
Slowness window. Units in deg/sec.
- <slowstep> *parameter type: real*  
Step size within slowness window. Unit in deg/sec.
- <azimuth> *parameter type: real*  
Beam azimuth in degrees.
- <power> *parameter type: real*  
Before each summation the <power>-th root of the input traces is computed. The result trace is then taken to the <power>-th power.

### example

```
vespa 3.0 7.0 0.2 23.3 1.  
usual vespagram (plain summation)
```

```
vespa 3.0 7.0 0.2 23.3 4.  
4-th root process on each summation
```

### commands used

- BEAM
- CALC
- COPY
- DEFAULT
- DEL
- ECHO
- GOTO
- HIDE
- IF
- NR
- RD
- RETURN

- SDEF
- SET
- SHIFT
- SUM
- SWITCH
- TRCFCT