spectral lines are Fe 15648 A & Fe 15652 A & Fe 15662 A

PARAMETER FOR CALIBRATION
example path /archive/gris/20140426/level2/26apr14.000_cor_spec.save

```
CONTI     DOUBLE = Array[5]          ; define continuum [ccd pixel start, ccd pixel end, counts (quiet sun), counts (low p_tot values), counts (low p_tot values after correction)] -> last value is final
DISP      DOUBLE = Array[2]          ; spectral dispersion [offset, slope]
FTS       DOUBLE = Array[1010, 3]  ; FTS atlas [wavelength, intensity, intensity after convolution and contamination from spectral scattered light] -> last spectrum is final
LPAR      DOUBLE = Array[3, 5]       ; line parameters [line minimum in pixel, line minimum from fit,  laboratory wavelength, effective g factor, velocity dispersion in km/s]
PARAM     FLOAT  = Array[51, 51, 3]   ; parameter for FTS degradation [FWHM of Gauss function, scattered light contamination, Merit function] similar to Allende Prieto et al. 2004
SPEC      DOUBLE = Array[1010, 3]  ; average quiet Sun spectrum [wavelength, intensity, correction curve] -> corrected spectrum is SPEC[*,1]+SPEC[*,2]
```

CALIBRATED STOKES PROFILES
example path /archive/gris/20140426/level2/26apr14.000_stok.save

```
STOKI     FLOAT = Array[101, 105, 471, 3]    ;corrected and despiked (switched of a.t.m. due to problems) stokes parameters in a 4 A window around line minimum
STOKQ     FLOAT = Array[101, 105, 471, 3]
STOKU     FLOAT = Array[101, 105, 471, 3]
STOKV     FLOAT = Array[101, 105, 471, 3]
```

ATMOSPHERIC PARAMETER FROM SPECTRAL ANALYSIS
example path /archive/gris/20140426/level2/26apr14.000_maps.save

```
AMAS          FLOAT = Array[105, 471, 3]     ; amplitude asymmetry similar to Solanki & Stenflo 1984
ARAS          FLOAT = Array[105, 471, 3]     ; area asymmetry similar to Solanki & Stenflo 1984 (unlike ncp, area asymmetry does not depend on amplitude of Stok V)
BB_SPLIT      DOUBLE = Array[105, 471, 3]  ; magnetic field strength in according to Zeeman equation B [G] = delta_lamb [A] / lambda_0^2 [A] * 4.67E-13 * g_eff
CP            FLOAT = Array[2, 3]              ; lambda_0 for wavelength calibration (position of zero crossing of average Stok V profile computed from umbral Stok V profiles with AMAS < 5%)
CP_ALL        FLOAT = Array[105, 471, 3]     ; position of zero crossing for all Stok V profiles similar to Solanki & Stenflo 1984 (position of red lobe - position of blue lobe)
DOP_BSC       FLOAT = Array[105, 471, 3]     ; Doppler velocities from bisector -> preliminary and will be updated soon
DOP_COG       FLOAT = Array[105, 471, 3]     ; Doppler velocities from barycenter of the line (strongly influenced by blends) -> preliminary and will be updated soon
DOP_CRCT      FLOAT = Array[105, 3]            ; correction curve for velocity gradient across FOV (just FYI)  mean[v_dop + abs{min(v_dop)}] for all pixel along slit
DOP_GFIT      FLOAT = Array[105, 471, 3]     ; Doppler velocities from gaussian fit to lines -> preliminary and will be updated soon
DOP_LMIN      FLOAT = Array[105, 471, 3]     ; Doppler velocities from line core -> preliminary and will be updated soon
DOP_MAG       FLOAT = Array[105, 471, 3]     ; Doppler velocities from zero crossing of Stok V -> preliminary and will be updated soon
FRINGE        FLOAT = Array[105, 471, 3]     ; amplitude of fringes computed from RMS in continuum between -2000 mA and -1800 mA as well as 1800 mA and 2000 mA from line core
INT           FLOAT = Array[105, 471]          ; continuum map
MU            FLOAT = Array[105, 471]          ; map of cos(heliocentric angle) from cassda_gui_tip ->  implemented but not up to data because depend on HMI data (saved as context data a.t.m.)
NCP           FLOAT = Array[105, 471, 3]     ; net circular polarization of lines with an equivalent width in units of [pm] similar to D. Mueller (Dipl. Thesis 2002)
PEN           FLOAT = Array[105, 471]          ; penumbral mask manually created by M. Franz
PLIN          FLOAT = Array[105, 471, 3]     ; total linear polarization according to B. Lites in pvpvcomp_sbsp.pro of Hinode reduction package
PMAX          FLOAT = Array[105, 471, 3]     ; maximum polarization degree according to C. Beck (PhD Thesis 2005) -> not yet implemented and will be updated soon
POL           FLOAT = Array[105, 471, 3]     ; magnetic field polarity from average of blue lobe of Stok V (-120 mA to -320 mA from line core)
PTOT          FLOAT = Array[105, 471, 3]     ; total polarization according to B. Lites pvpvcomp_sbsp.pro of Hinode reduction package
```