

Fig. 1 Distribution of Overlap Index (n=192)

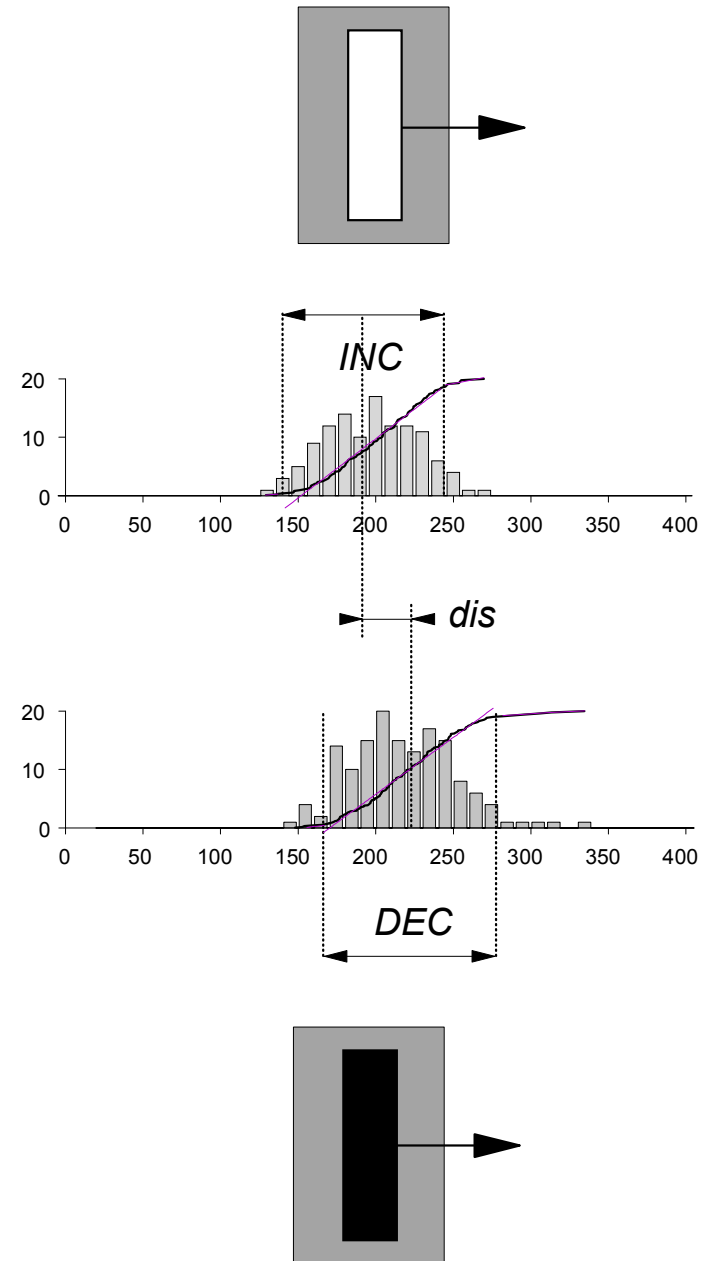
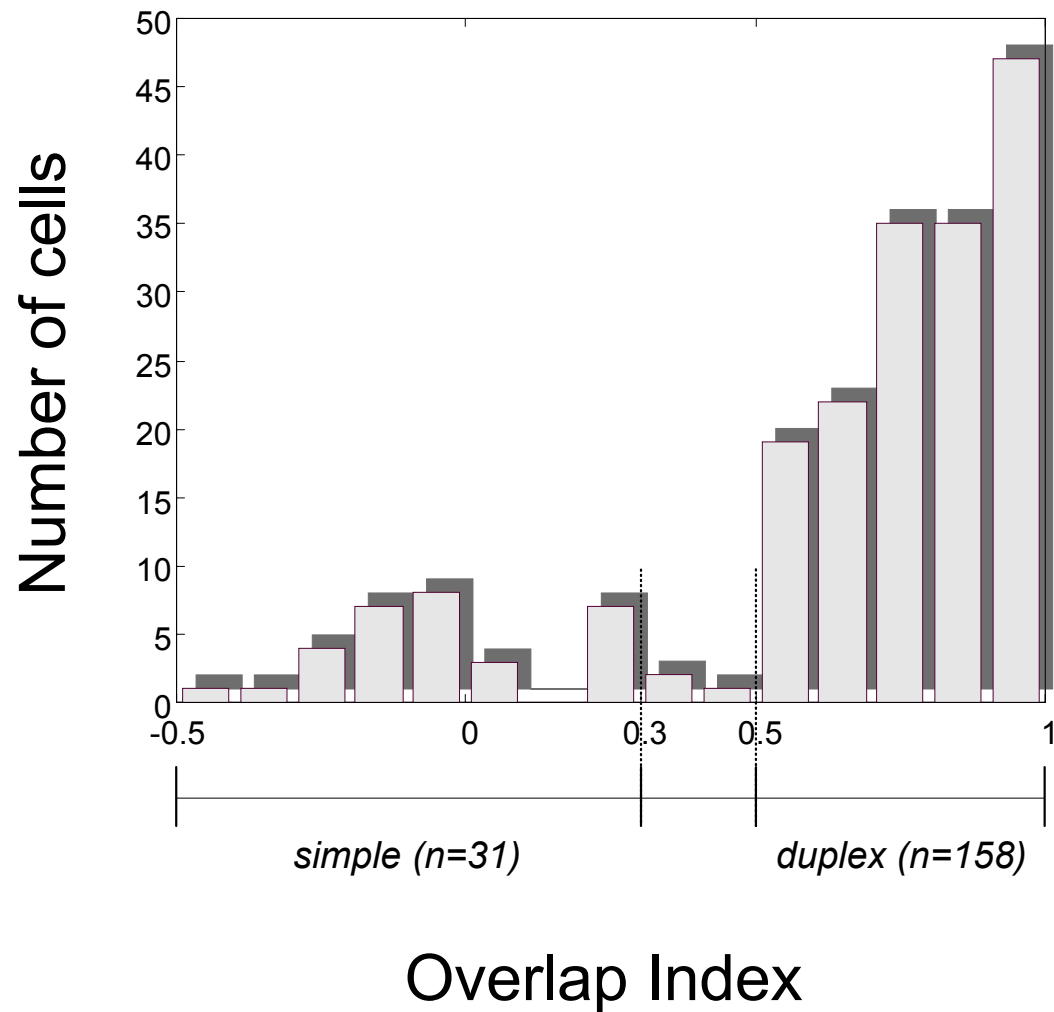


Fig. 2 Subunits AR width vs. OI (n=192)

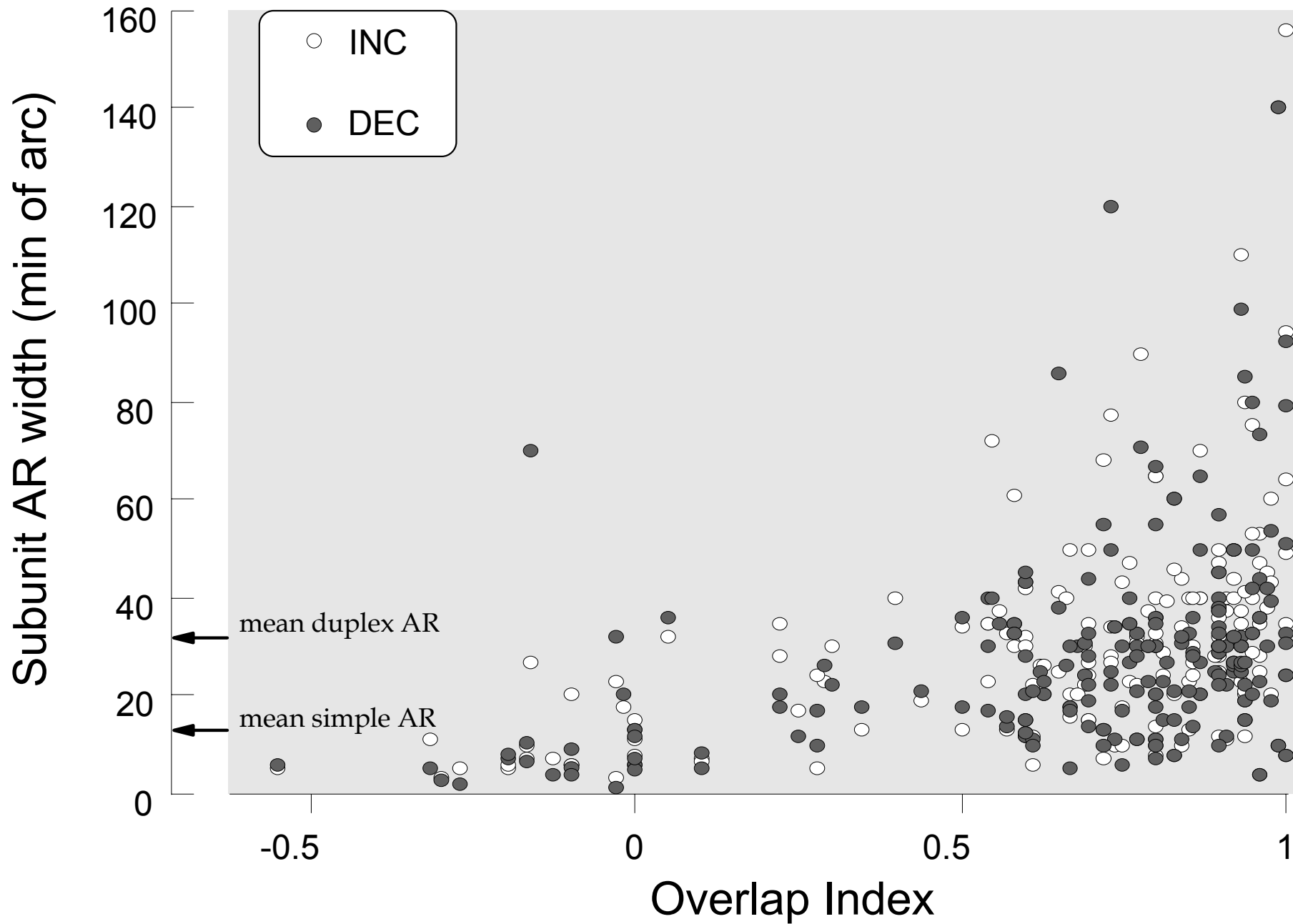
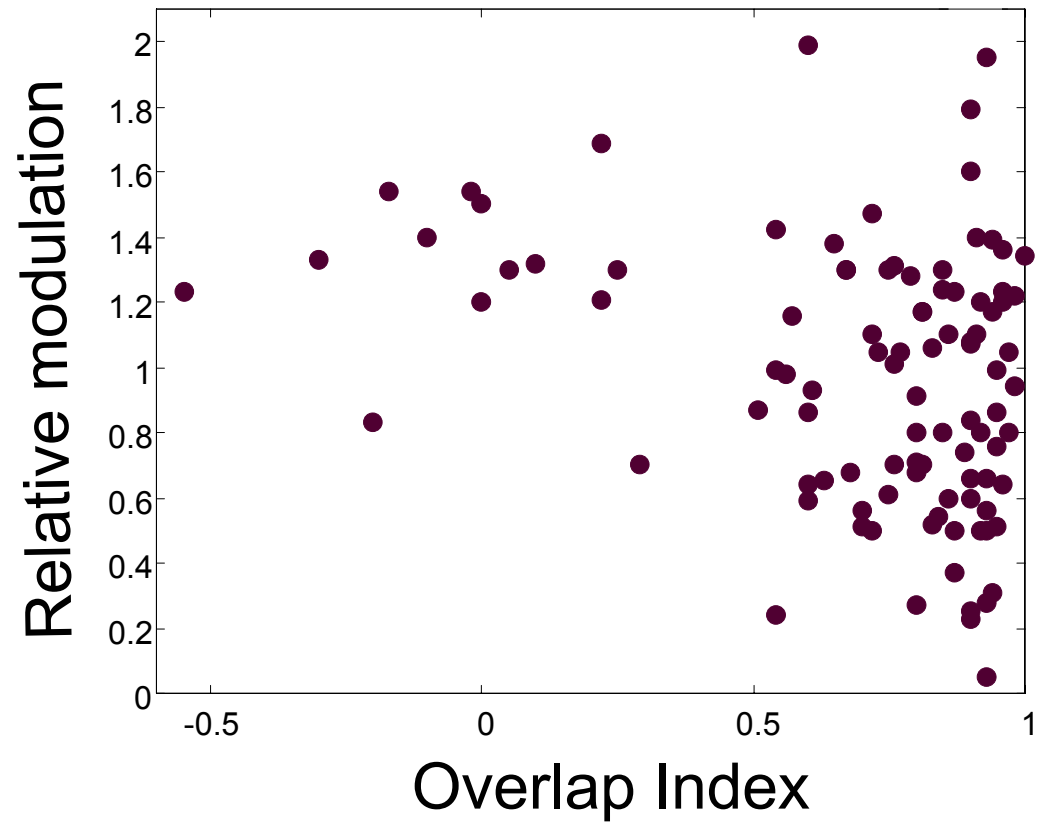
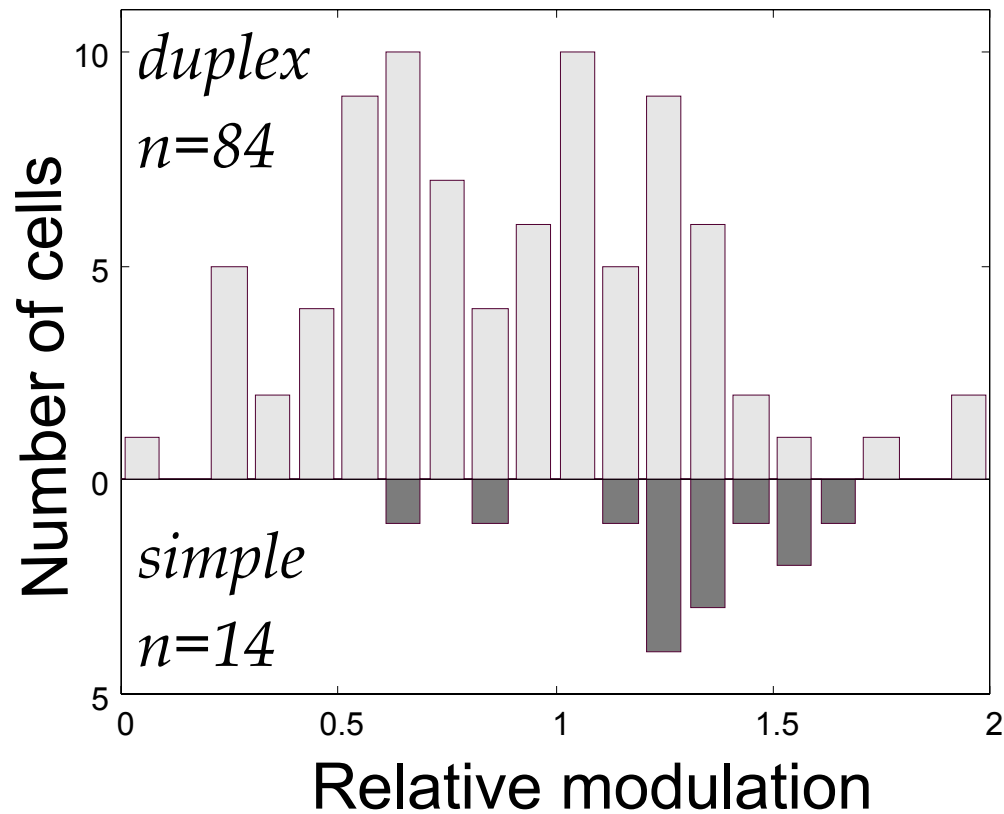


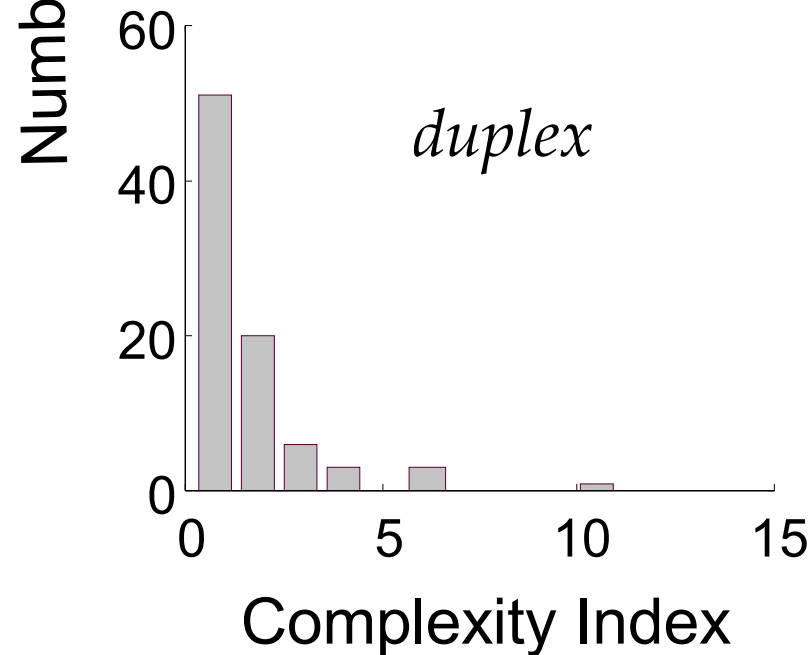
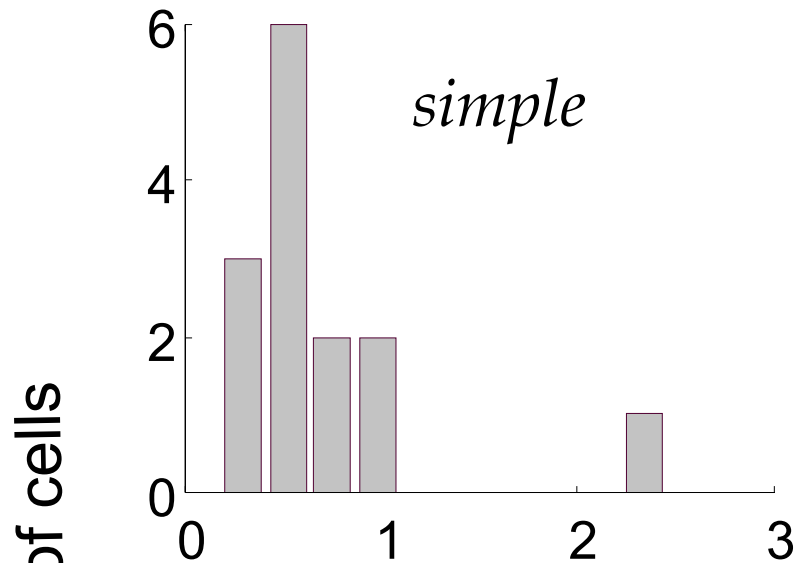
Fig. 3 Distribution of cells with regard to modulation of the response to drifting grating



Relative modulation (RM)
is defined as:

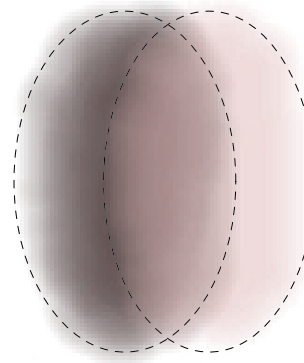
$$RM_1 = \frac{AC_1}{DC - DC_{spont.}}$$

Fig. 4 "Complexity Indices" Distribution



Complexity index is defined as ratio of mean subunit AR width to grating bar width:

$$CI = \frac{0.5(INC + DEC)}{\text{grating half period}}$$

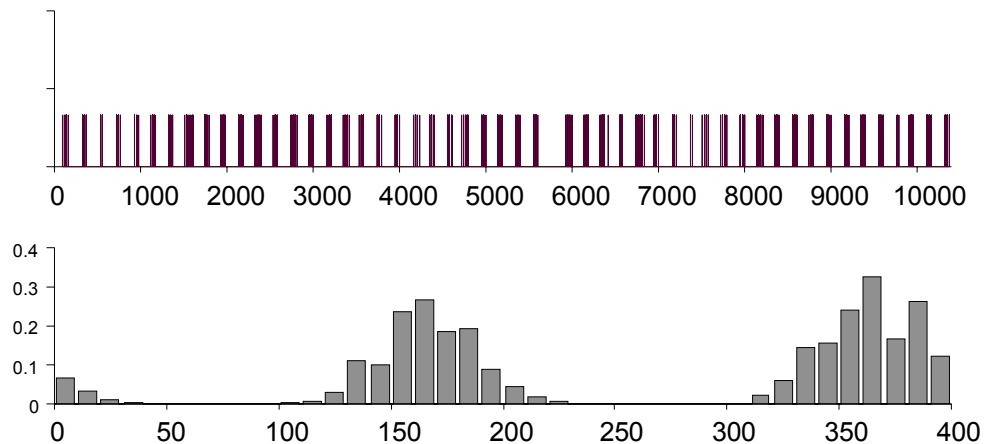


mean AR 30'
grating 1 cpd
CI 1

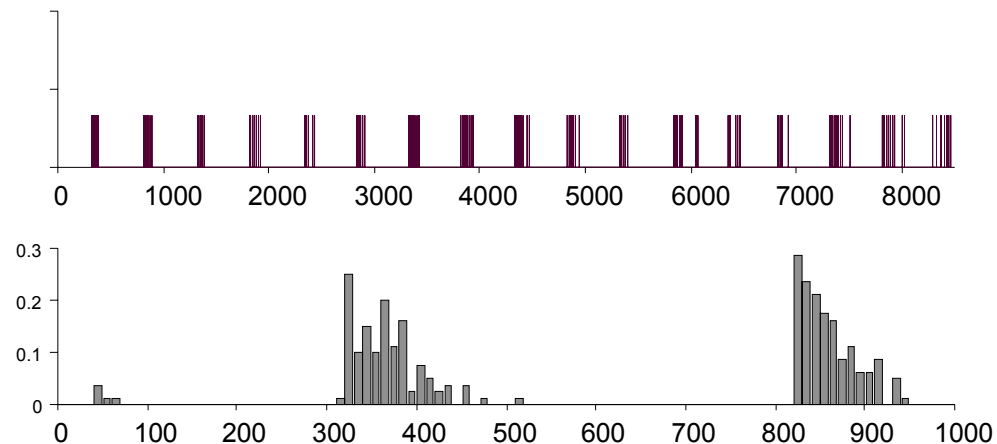


Fig. 5 Simple cell (10982). $OI = -0.17$, $AR = 14'$, $BD 0$ spk/s

Drifting Sine, Window 62', SF 2 cpd, TF 5 Hz



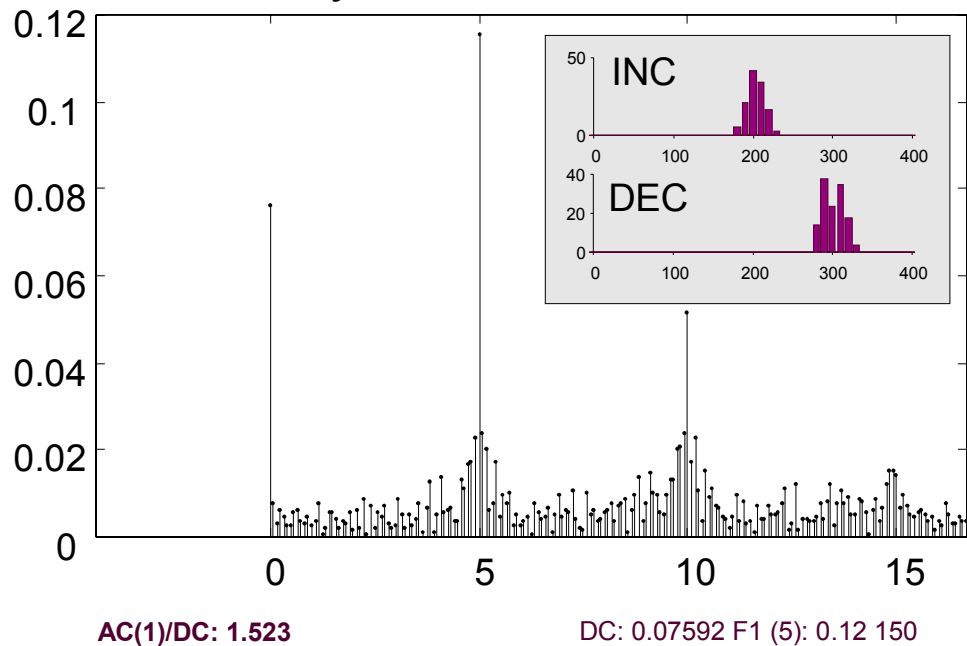
Counterphase Sine, Window 62', SF 2 cpd, TF 2 Hz



Time (ms)

Harmonic analysis

$RM = 1.52$



Hz

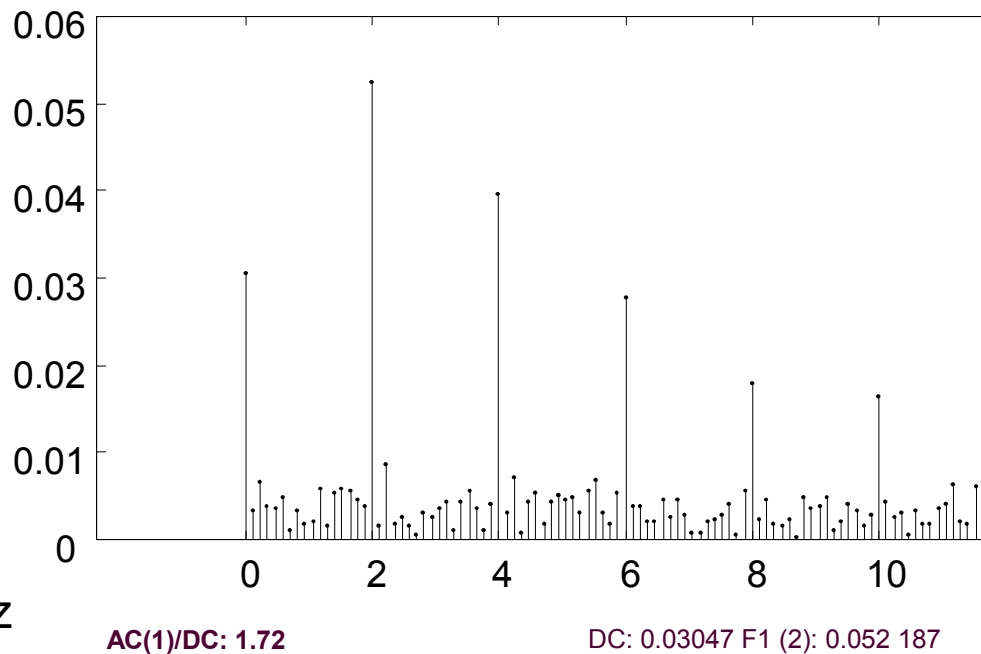
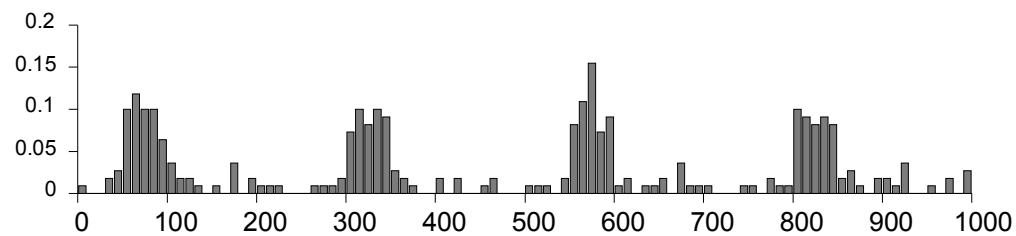
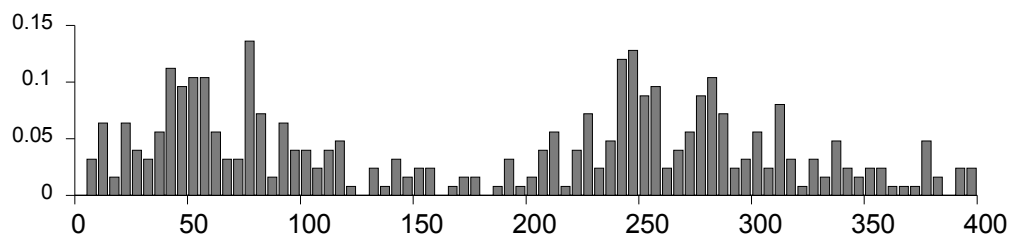
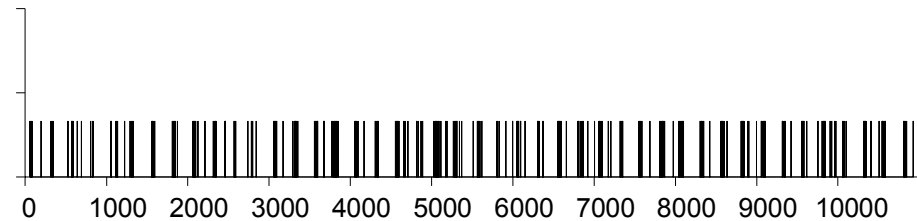
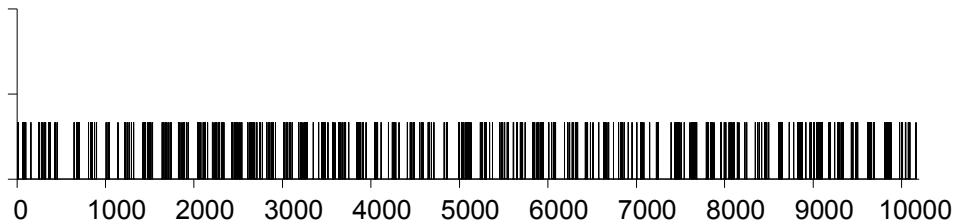


Fig. 6 Duplex cell (22883). $OI = 0.95$, $AR = 51'$, $BD 7$ spk/s

Drifting Sine, Window 52', SF 1 cpd, TF 5 Hz

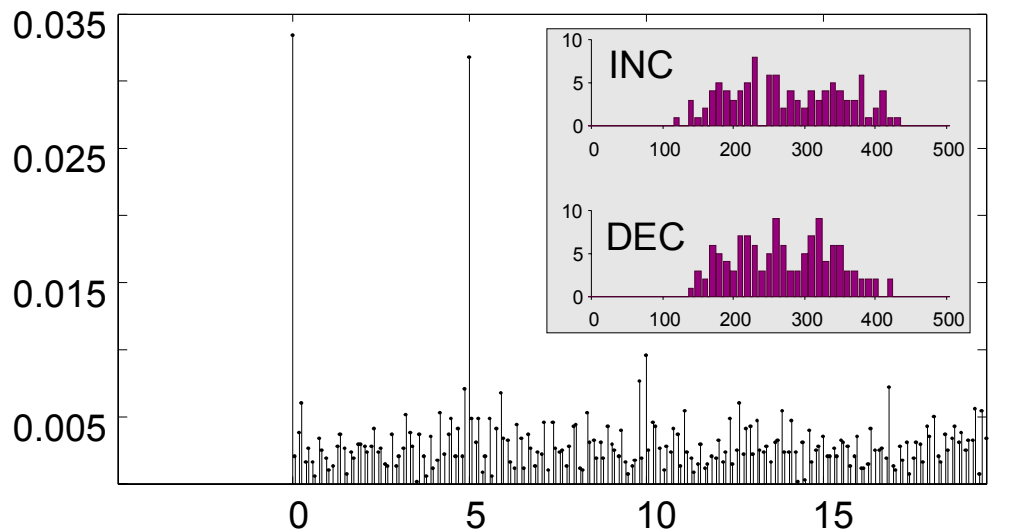
Counterphase Sine, TF 2 Hz, Window and SF varied



Time (ms)

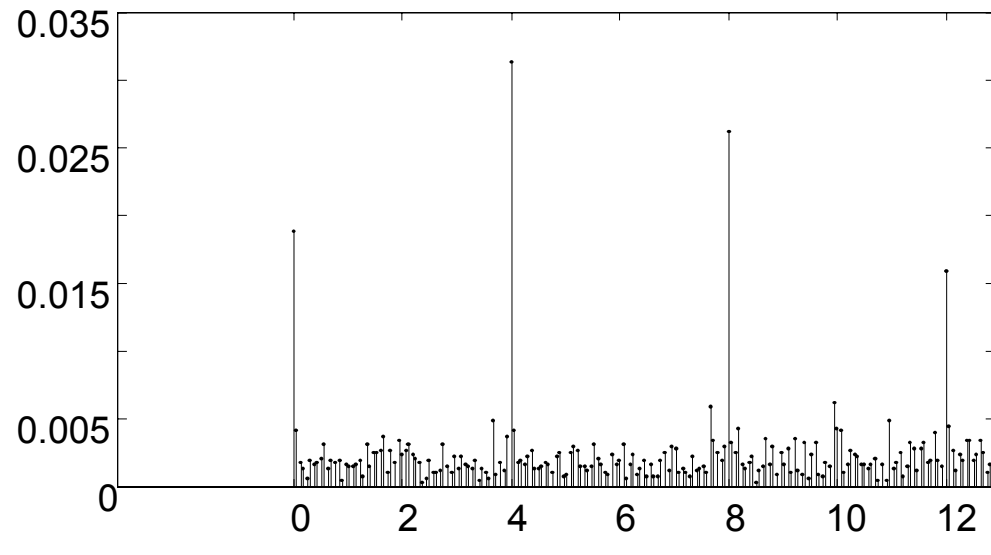
Harmonic analysis

$RM = 0.95$



AC(1)/DC: 0.9501 -BD=0.007

DC: 0.03339 F1 (5): 0.032 -19.7

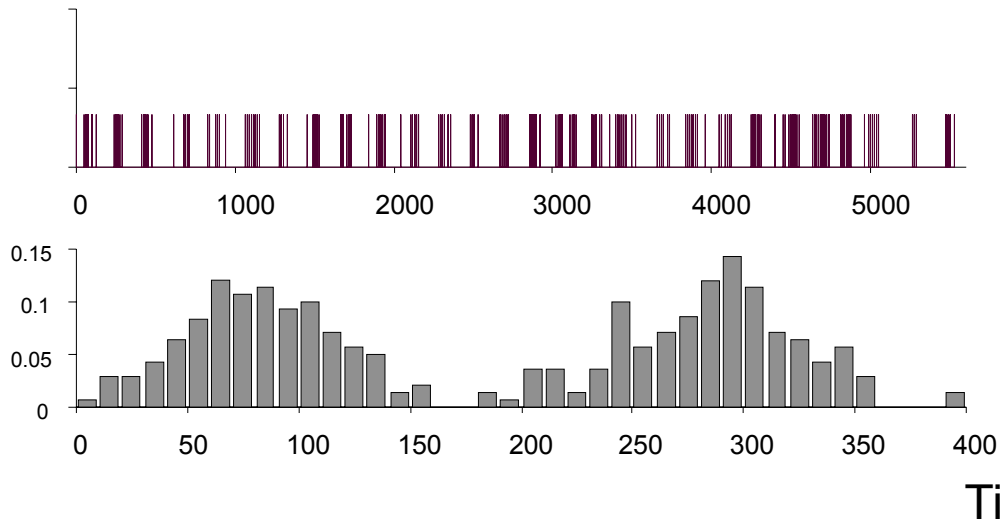


AC(1)/DC: 0.1228 -BD=0.007

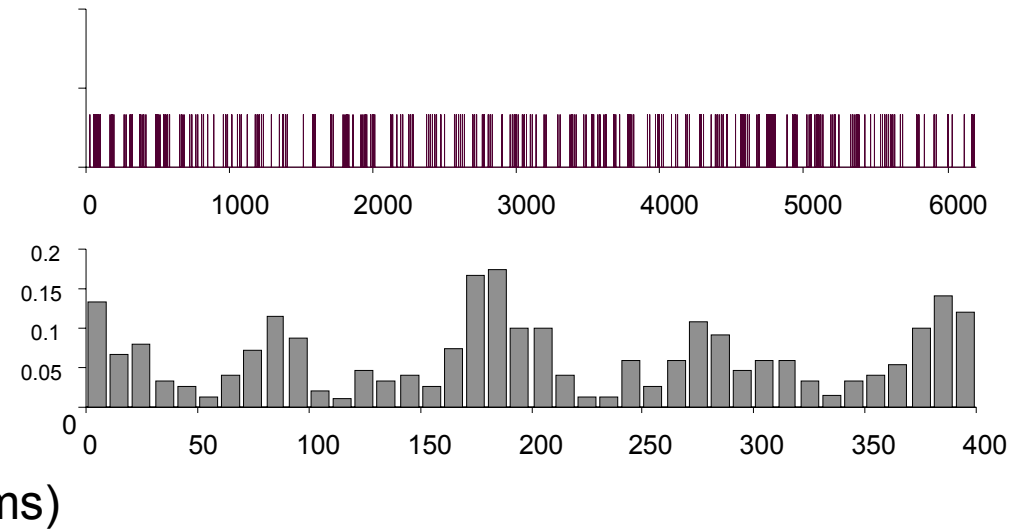
DC: 0.01887 F1 (2): 0.0023 14.5

Fig. 7 Duplex cell (28682). $OI = 0.94$, $AR = 17'$, $BD 2 \text{ spk/s}$

Drifting Sine, Window 12', SF 4 cpd, TF 5 Hz

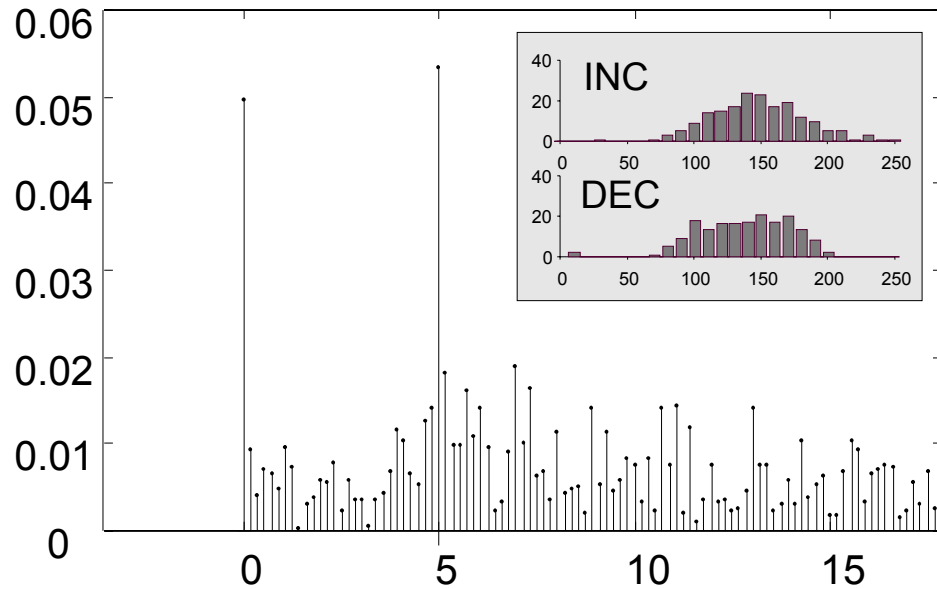


Drifting Sine, Window 12', SF 0.5 cpd, TF 5 Hz



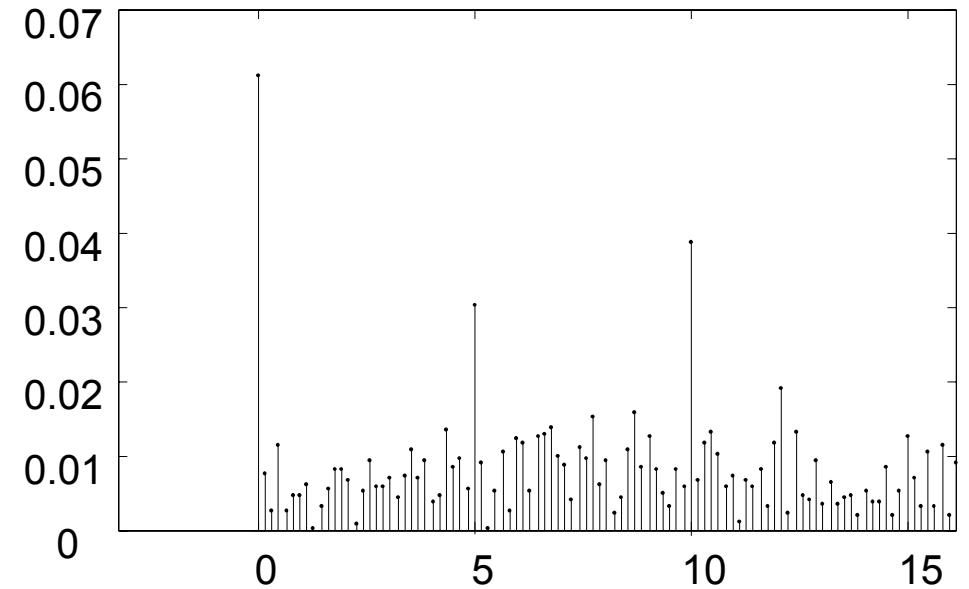
Harmonic analysis

$RM = 1.15$



AC(1)/DC: 1.15 **-BD=0.002** DC: 0.04961 F1 (5): 0.054 -62.4

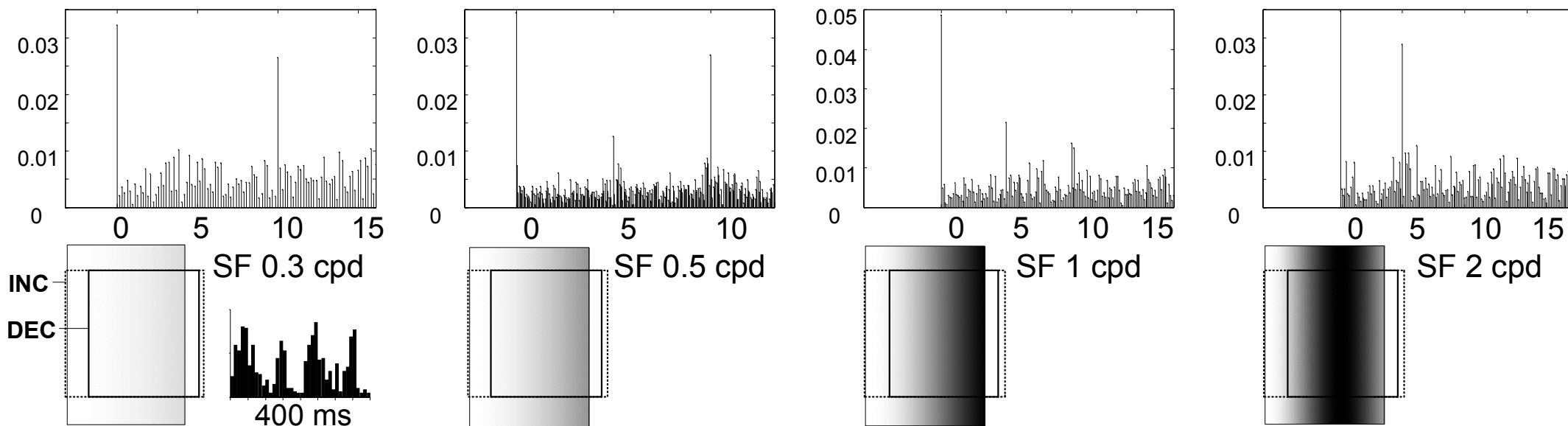
Hz



AC(1)/DC: 0.50 **-BD=0.002** DC: 0.06106 F1 (5): 0.030 118

Fig. 8 Duplex cell (15884). $OI = 0.97$, $AR = 34'$, $BD 0$ spk/s

Drifting Sine, Window 23', TF 5 Hz, various SF - spectra of responses



Drifting Sine, SF 0.5 cpd, TF 5 Hz, various Window sizes

