

$$\hat{y}_{(u)} = \frac{1}{P} \sum_{s=1}^P y_{(u)s}$$

$$N_{y(u)s} = y_{(u)s} - \hat{y}_{(u)}$$

$$\hat{\sigma}_{y(u)}^2 = \frac{1}{P-1} \sum_{s=1}^P |N_{y(u)s}|^2$$

$$\hat{G}_{BLA} = \frac{1}{M} \sum_{k=1}^M \hat{G}_{(u)}$$

BLA

$$\hat{\sigma}_N^2 = \frac{1}{M} \sum \hat{\sigma}_{y(u)}^2$$

(OUTPUT NOISE FLOOR)

$$G_{S(u)} = \left(\frac{\hat{y}_{S(u)}}{U_{(u)}} \right) = \hat{G}_{BLA}(u) - \hat{G}_{BLA}$$

$$\hat{\sigma}_{G_S}^2 = \frac{1}{M-1} \sum |G_{S(u)}|^2$$

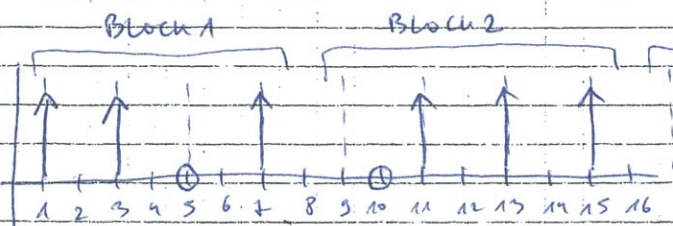
$$\hat{V}_S = \frac{1}{M-1} \sum |y_{S(u)}|^2 = \hat{\sigma}_{y_S}^2$$

STOCHASTIC DISTORTION

(IF ODD GRID OR ODD-ODD GRID OR EVEN/ODD TEST FREQUENCIES SEPARATELY)

ODD DISTORTION
EVEN LEVEL

FAST METHOD



$M \sim 10^3 \div 10^4$
(ENOUGH FOR AVERAGING)
POWER

ODD-GRID

EVEN DETECTION LINES

ODD — 1 — 1 —

1 IN 4 RANDOMLY LEFT OUT
(BLOCK BY BLOCK)

→ BLA

→ EVEN NL DISTORTION LEVEL

→ ODD NL — 1 — 1 —

— AT ODD EXCITED FREQ + INTERPOLATION

— AT EVEN, NOT EXCITED FREQ + ...

— AT ODD, NOT EXCITED FREQ + ...

ASSUMING SMOOTH FREQUENCY FUNCTIONS