

Online + offline veto efficiency

Zero-Bias trigger,
colliding bunches

STAR
Internal

Number of TOF vertices = 0

Number of TOF clusters ≤ 1

BBC-L ADC_{thr} at 0.25% noise rate

RP branches EU-WU

○ $t_{\text{run}} < 20$ min

○ $t_{\text{run}} > 20$ min

$$\text{Eff} = a \times e^{-bL}$$

$$\chi^2/\text{ndf} = 3713/1151$$

$$a = 0.997 \pm 0.001$$

$$b = (12.25 \pm 0.06) \times 10^{-3} \mu\text{bs}$$

Instantaneous luminosity L [$\mu\text{b}^{-1}\text{s}^{-1}$]

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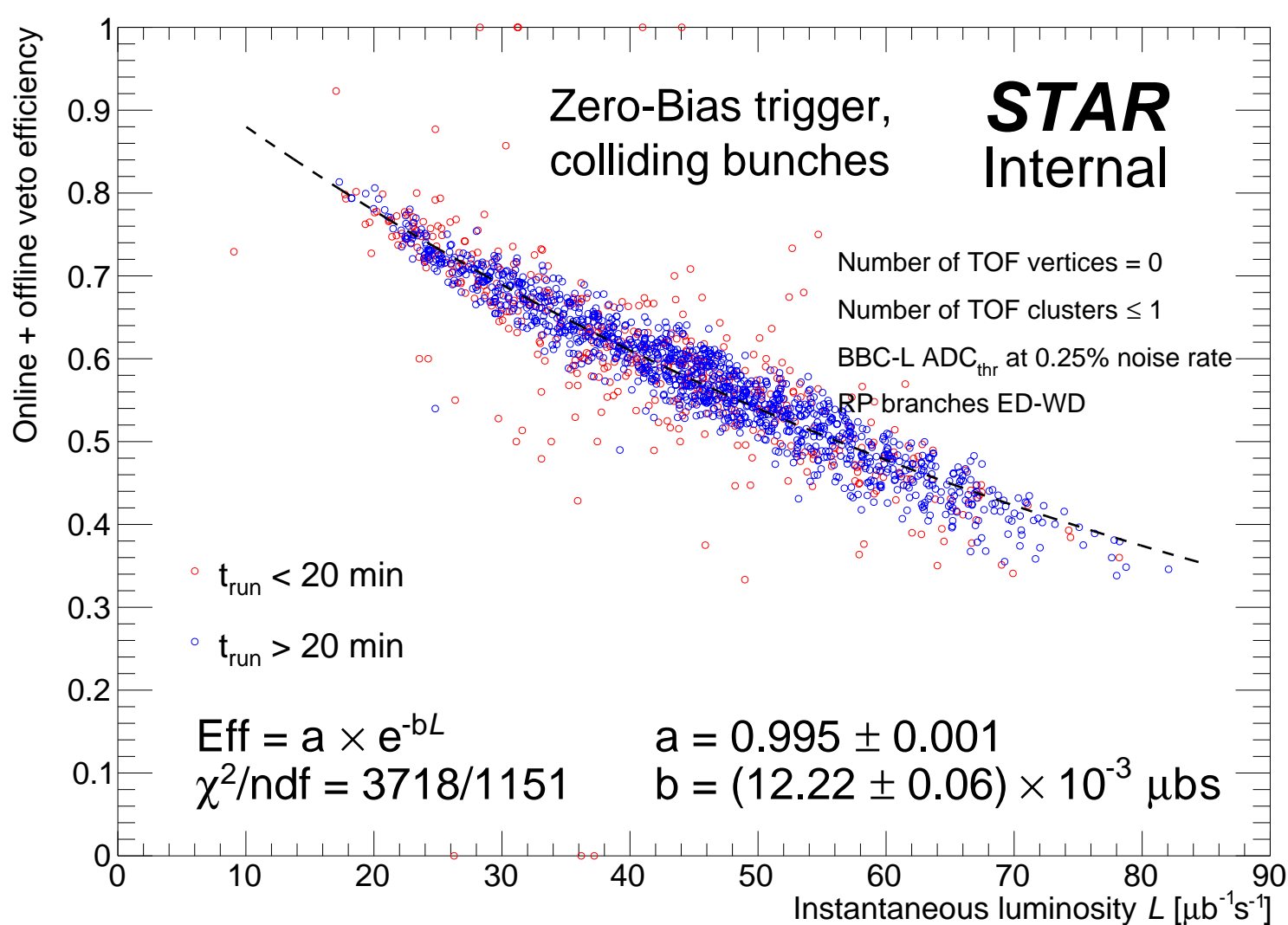
$$\text{Eff} = a \times e^{-bL}$$

$$\chi^2/\text{ndf} = 3718/1151$$

$$a = 0.995 \pm 0.001$$

$$b = (12.22 \pm 0.06) \times 10^{-3} \mu\text{bs}$$

Instantaneous luminosity L [$\mu\text{b}^{-1}\text{s}^{-1}$]



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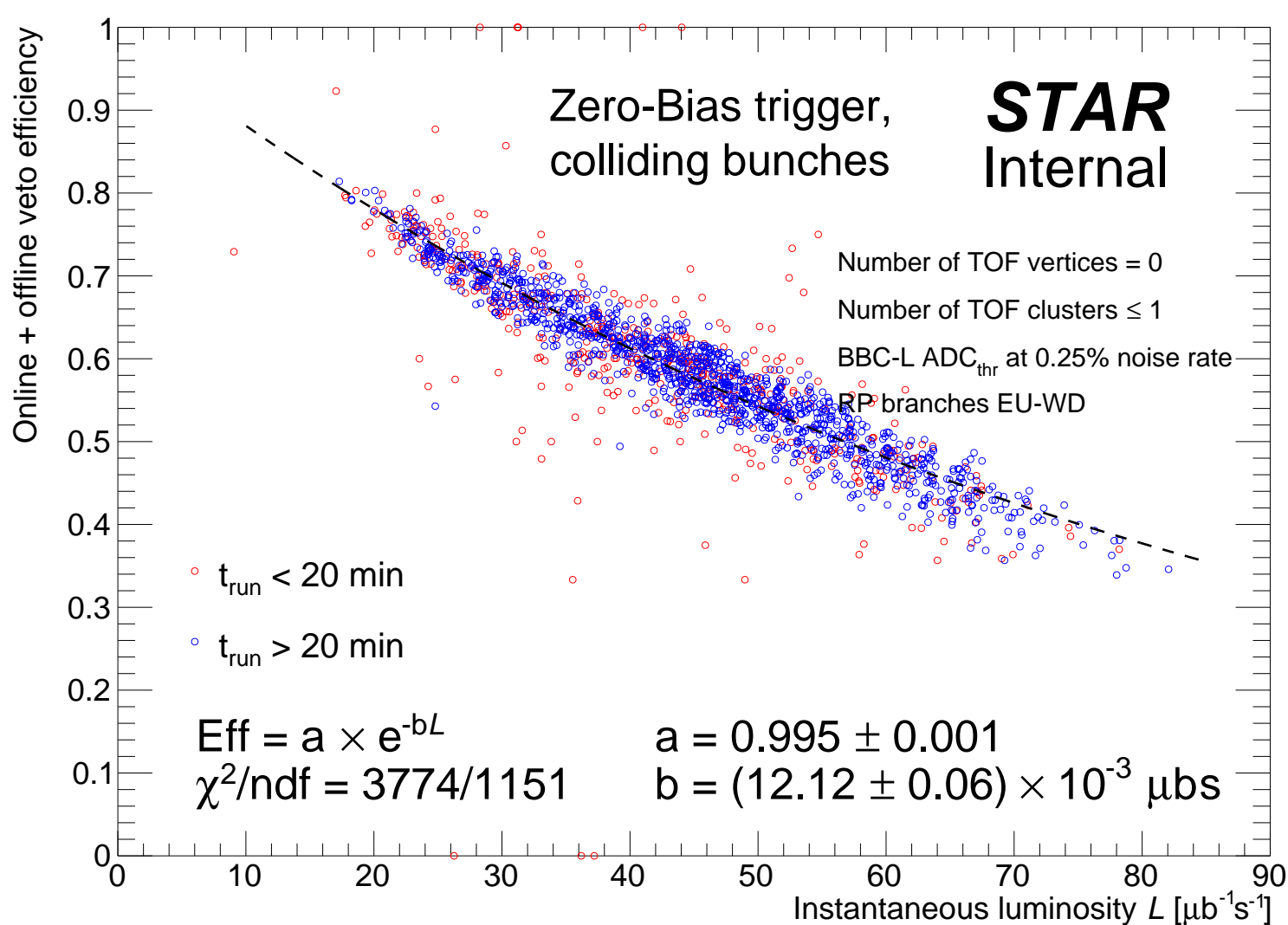
$$\text{Eff} = a \times e^{-bL}$$

$$\chi^2/\text{ndf} = 3774/1151$$

$$a = 0.995 \pm 0.001$$

$$b = (12.12 \pm 0.06) \times 10^{-3} \mu\text{bs}$$

Instantaneous luminosity L [$\mu\text{b}^{-1}\text{s}^{-1}$]



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$$\text{Eff} = a \times e^{-bL}$$

$$\chi^2/\text{ndf} = 3694/1151$$

$$a = 0.997 \pm 0.001$$

$$b = (12.15 \pm 0.06) \times 10^{-3} \mu\text{bs}$$

Instantaneous luminosity L [$\mu\text{b}^{-1}\text{s}^{-1}$]

