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| --- | --- |
|  | **General Output Format : (a/b) (c/d) [e,f]****1) First couple of values : Without 𝛾** $≡$ **(a / b)** **2)Second couple of values : With 𝛾** $≡$ **(c / d)** **3) Inside each couple of values : (a1 / b1) = (FoM(10 bins ) / FoM(11bins))****4) Inside a couple of values for GCsp: (a2 / b2) = FoM(4 bins) /FoM(5 bins)****5) Standard deviation for each 𝛾 case (within brackets) : σ on (c,d) 𝛾 cases [e, f] = [σc, σd]** |
| **Pessimistic (IST case):**kmax = 0.25 h.Mpc-1lmax(WL) = 1500lmax(GCph) = 750lmax(XC) = 750sig\_p, sig\_v to estimateZcut for GCsp combined with GCph | **Semi - Pessimistic:**kmax = 0.25 h.Mpc-1lmax(WL) = 1500lmax(GCph) = 750lmax(XC) = 750sig\_p, sig\_v to estimateNo Zcut for GCsp combined with GCph | **Optimistic (IST case):**kmax = 0.3 h.Mpc-1lmax(WL) = 5000lmax(GCph) = 3000lmax(XC) = 3000sig\_p, sig\_v fixedNo Zcut for GCsp combined with GCph |
| GCsp - No 𝛾 (4/5 bias) GCsp - 𝛾 (4/5 bias)  | (14.18 / 13.81)(7.39 / 6.84)[ 0.182 , 0.181] | (14.18 / 13.81)(7.39 / 6.84)[ 0.182 , 0.181 ] | (56.14 / 52.61) (37.73 / 34.48)[ 0.136 , 0.133 ] |
| **Number of photo bias :****(No spectro bias here)** | **Pessimistic:****(10) / Extended (11)****Zcut < 0.9** | **Semi- Pessimistic case =****Pessimistic (IST case):****(10) / Extended (11)****No-Zcut** | **Optimistic (IST case):****(10) / Extended (11)****No-Zcut** |
| GCph | (1.69 / 1.69) (1.10 / 1.10)[ 0.466 , 0.466 ] | (4.25 / 4.93) (3.15 / 3.78)[ 0.429 , 0.409 ] | (61.80 / 66.55) (55.08 / 59.48)[ 0.129 , 0.128 ] |
| WL | (24.09 / 25.72)(7.13 / 8.01)[ 0.191 , 0.180 ] | (24.09 / 25.72)(7.13 / 8.01)[ 0.191 , 0.180 ] | (46.82 / 50.65)(13.97 / 15.61)[ 0.09 , 0.08 ] |
| GCph + WL + XC | (211.52 / 213.50) (75.70 / 77.80)[ 0.079 , 0.077 ] | (358.41 / 382.86) (128.96 / 142.14)[ 0.062 , 0.058 ] | (1006.13 / 1035.82)(441.97 / 477.52)[ 0.021 , 0.020 ] |
| **Synthesis with simple sum (GCsp+GCph+WL) and** **GCsp+ (GCph+WL+XC)** | **Pessimistic (IST case): zcut (5 first bias for GCph) Zcut < 0.9** | **Semi-Pessimistic case:****(10) / Extended (11)****No-Zcut** | **Optimistic (IST case):**(**10) / Extended (11)****No-Zcut** |
| 1. Specifications IST :
* (4 bias spectro) :

GCsp + GCph + WL  |  (121.73 / 125.30) (99.81 / 102.38) [ 0.036, 0.035 ]  | (151.05 / 156.16)(119.72 /127.41)[ 0.035 , 0.035 ] |  (351.18 / 367.42) (262.88 /279.53)[ 0.018 , 0.017 ] |
| 1. Specifications IST :
* (4 bias spectro) :

GCsp + (GCph + WL + XC)  |  (384.80 / 386.64) (255.84 / 257.64 ) [ 0.031, 0.031 ] | (550.01 / 573.48)(320.07 / 333.93)[ 0.029 , 0.028 ] | (1220.39 / 1249.97) (692.62 /725.96)[ 0.016 , 0.015 ] |
| 1. New specifications
* Bias independent :

(5 bias spectro) : GCsp + GCph + WL  | (119.67 / 123.34) (99.20 / 101.84 )[ 0.035, 0.035 ] | (146.68 / 154.12)(119.72 / 125.45)[ 0.035 , 0.035 ] | (340.83 / 357.19)(255.68 / 272.10)[ 0.018 , 0.017 ] |
| 1. New specifications
* Bias independent :

(5 bias spectro) : GCsp + (GCph + WL + XC) | (389.00 / 386.80) (259.32 / 261.08)[ 0.031, 0.030 ] | (548.22 / 571.35)(320.84 / 334.05)[ 0.029 , 0.028 ] | (1209.80 / 1235.09)(682.82 / 716.27)[ 0.016 , 0.015 ] |
| 1. « common bias » : ( No 𝛾) ( 𝛾)
* 5 Bias dependent :

GCsp + (GCph + WL + XC) | **Not computable since z\_cut < 0.9** | (781.09) (587.24)[ 0.017 ] | (1565.86) (1254.87)[ 0.009 ] |