

ESEMPIO SINGOLO GRUPPO

canale	conteggio	BR	Err.Cont.	eBR	BR	eBR
e+e-	22	0.04	4.586	0.01	0.035	0.007
m+m-	23	0.05	4.684	0.01	0.037	0.007
t+t-	25	0.05	4.873	0.01	0.040	0.008
qq	430	0.86	7.759	0.02	0.688	0.012

Ntot: 500
corr: 0.8

1

0.800

SQRT(Ntot*C8*(1-C8))

Risultato conteggi GRUPPO EST (events:1-500)

	ee	mm	tt	hh
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gr1	0.0304	0.0068	0.0272	0.0065	0.0416	0.0079	0.7010	0.0120
gr2	0.0288	0.0067	0.0272	0.0065	0.0464	0.0084	0.6976	0.0119
gr3	0.0352	0.0073	0.0288	0.0067	0.0400	0.0078	0.6960	0.0120
gr4	0.0326	0.0070	0.0288	0.0067	0.0352	0.0073	0.7040	0.0116
gr5	0.0272	0.0065	0.0304	0.0068	0.0448	0.0082	0.6976	0.0120
gr6	0.0336	0.0072	0.0304	0.0068	0.0528	0.0089	0.6832	0.0126

Err.Stat. 0.0069 0.0067 0.0081 0.0120

Err.Sist. 0.0030 0.0014 0.0060 0.0072

BR1: 0.031 0.008 0.029 0.007 0.043 0.010 0.697 0.014

STDEV(B20:B26)

AVERAGE(C20:C26)

SQRT(C30^2+C31^2)

Risultato conteggi GRUPPO OVEST (events:501-1000)

	ee	mm	tt	hh
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gr1	0.0352	0.0073	0.0272	0.0065	0.0560	0.0091	0.6816	0.0127
gr2	0.0288	0.0067	0.0272	0.0065	0.0656	0.0098	0.6784	0.0128
gr3	0.0496	0.0088	0.0256	0.0060	0.0416	0.0080	0.6832	0.0130
gr4	0.0384	0.0076	0.0288	0.0067	0.0512	0.0087	0.6816	0.0127
gr5	0.0224	0.0059	0.0448	0.0082	0.0672	0.0099	0.6656	0.0133
gr6	0.0320	0.0070	0.0320	0.0070	0.0640	0.0097	0.6720	0.0131

Err.Stat.	0.0072	0.0068	0.0092	0.0129
Err.Sist.	0.0093	0.0071	0.0100	0.0069
BR2:	0.034	0.012	0.031	0.010

RISULTATO FINALE STUDENTI

	BR	eBR
ee	3.2	0.6
mm	2.9	0.6
.	4.8	0.8
qq	68.7	1.0

RISULTATO ATTUALE PDG 2004

	BR	eBR
ee	3.37	0.01
mm	3.37	0.01
tt	3.37	0.01
qq	69.89	0.07

$$\begin{aligned} BR &= p_1^* BR_1 + p_2^* BR_2 \\ p_1 + p_2 \\ eBR &= 1 / \text{SQRT}(p_1 + p_2) \\ p_i &= 1/\sigma^2 \end{aligned}$$