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Data quality 2016

Bad spill analysis

The bad spill analysis is based on monitoring of so-called macro variables on spill-by-spill basis. Details can be found here:

- J. Giarra, 30. 10. 2018, 2016 online weekly [↗](#)
- J. Giarra, 8. 2. 2019, Analysis meeting [↗](#)

The bad spills lists are stored in a GIT repository [↗](#).

Bad run analysis

The bad run analysis is based on Kolmogorov comparison of kinematic distributions of muons, hadrons and K0 mass.

Details can be found here:

- J. Matousek, 19. 7. 2018, AM subgroup meeting [↗](#)
- Release note 2018-09: Azimuthal asymmetries in SIDIS from 2016 P07 data [↗](#)
- J. Matousek, 23. 10. 2018, 2016 online weekly [↗](#)

The program code for the analysis is stored in a GIT repository [↗](#).

Bad Run lists for SIDIS analyses of 2016 data produced without bad spills being taken into account:

- **2016-P07-s1** (details [↗](#)): BadRunList_P07_s1.txt, updated (revision 2): better K0 mass distribution (details [↗](#))
- **2016-P08-s2**: BadRunList_P08_s2.txt
- **2016-P09-s1** (details [↗](#)): BadRunList_P09_s1.txt, updated (revision 2): better K0 mass distribution(details [↗](#))
- **2016-P10-s2**: BadRunList_P10_s2.txt, 2016-P10-t4: BadRunList_P10_t4.txt
- **2016-P11-s2**: BadRunList_P11_s2.txt

COOL analysis

- "*exclude PXy*" means: exclude from data production and/or Monte Carlo production for period X and superperiod y (if defined);
- "*exclude*" means: exclude for the corresponding percentage of simulated data;
- "*x*" in the beam field means: to be taken into account in beamfile production;

period P1	from channel	to channel	from run	to run	production	Monte Carlo	beam
BM04X1__	-1	-1	270691	271102			x
DC04X1__	64	127	270800	271102		exclude P1b	
DC05V2__	160	180	270473	270611	exclude P1a	exclude P1a	

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FI02X1__	64	95	270800	271102			x
FI55U1__	-1	-1	270473	270671	exclude P1a	exclude P1a	
PA03X1__	700	759	270473	271102		exclude P1	
PB05X1__	190	379	270527	270605	exclude P1a	exclude P1a	
PB05X1__	380	569	270527	270792	exclude P1a	exclude P1a	
ST03U1da	32	63	270473	271102	exclude P1	exclude P1	
ST03U1ua	32	63	270473	271102	exclude P1	exclude P1	

We propose to split the period P1 in two halves:

- P1a = P11+P12+P13 (last run 270726)
- P1b = P14+P15+P16 (first run 270792)
- COOOLplots_P1.pdf: COOOL plots of the planes given in the table - period P1
- Runlist_P1.txt: COOOL_Runlist_P1: conversion relative to absolute run number
- cool_badrunlist_P1.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P2	from channel	to channel	from run	to run	production	Monte Carlo	beam
DC04X1__	64	127	271154	271675		exclude P2	
GM05X1__	-1	-1	271311	271343	exclude	exclude	
MA01X1__	176	183	271154	271675		exclude P2	
MA01X1__	410	455	271403	271675	exclude	exclude	
PA01U1__	0	379	271403	271489		exclude	
PA03X1__	700	759	271154	271675		exclude P2	
PA05V1__	570	759	271193	271429	exclude P2	exclude P2	
PA05V1__	-1	-1	271199	271205		exclude	
SI02U1__	-1	-1	271154	271489			x
ST03U1ua	32	63	271154	271675	exclude P2	exclude P2	

- COOOLplots_P2.pdf: COOOL plots of the planes given in the table - period P2
- Runlist_P2.txt: COOOL_Runlist_P2: conversion relative to absolute run number
- cool_badrunlist_P2.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P3	from channel	to channel	from run	to run	production	Monte Carlo	beam
DC05U2__	190	210	271942	272314	exclude P3	exclude P3	
GM05X1__	-1	-1	272040	272314	exclude P3b	exclude P3b	
PA05X1__	190	379	271883	272153	exclude P3a	exclude P3a	
ST03U1da	32	63	271783	272314	exclude P3	exclude P3	
ST03U1ua	32	63	271783	272314	exclude P3	exclude P3	

We propose to split the period P3 in two halves for Monte Carlo, P3b starting at run 272040 (middle P34).

- COOOLplots_P3.pdf: COOOL plots of the planes given in the table - period P3
- Runlist_P3.txt: COOOL_Runlist_P3: conversion relative to absolute run number
- cool_badrunlist_P3.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P4	from channel	to channel	from run	to run	production	Monte Carlo	beam
DC04V1__	192	255	272699	272780		exclude	
DC04V1__	64	127	272894	272932		exclude	
DC04V1__	64	127	273001	273116		exclude	
FI04Y1__	-1	-1	272610	272661		exclude	

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GM11X1__	-1	-1	272979	273047		exclude	
SI03X1__	-1	-1	272340	273116			x
ST03U1da	32	95	272340	273116	exclude P4	exclude P4	
ST03U1ua	32	95	272340	273116	exclude P4	exclude P4	

- COOOLplots_P4.pdf: COOOL plots of the planes given in the table - period P4
- Runlist_P4.txt: COOOL_Runlist_P4: conversion relative to absolute run number
- cool_badrunlist_P4.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P5	from channel	to channel	from run	to run	production	Monte Carlo	beam
FI15Y1__	-1	-1	273477	273605			x
GM08X1__	-1	-1	273590	273605		exclude	
GM08Y1__	-1	-1	273590	273605		exclude	
MA02X4__	79	95	273125	273605		exclude P5	
PA11X1__	0	200	273367	273425		exclude	
SI03X1__	-1	-1	273125	273409			x
ST03U1da	32	95	273125	273605	exclude P5	exclude P5	
ST03U1ua	32	95	273125	273605	exclude P5	exclude P5	

- COOOLplots_P5.pdf: COOOL plots of the planes given in the table - period P5
- Runlist_P5.txt: COOOL_Runlist_P5: conversion relative to absolute run number
- cool_badrunlist_P5.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P6	from channel	to channel	from run	to run	production	Monte Carlo	beam
FI07X1__	120	130	273947	273605		exclude P6b	
FI08Y1__	0	87	274174	273605		exclude	
GM08X1__	-1	-1	273769	273950	exclude P6a	exclude P6a	
GM08Y1__	-1	-1	273769	273950	exclude P6a	exclude P6a	
PA02X1__	570	759	273947	273605		exclude P6b	
PA03U1__	380	569	274058	273605	exclude P6b	exclude P6b	
PA03V1__	320	380	274048	273605	exclude P6b	exclude P6b	
ST03U1da	32	95	273125	273605	exclude P6	exclude P6	
ST03U1ua	32	95	273125	273605	exclude P6	exclude P6	

We propose to split the period P6 in two halves:

- P6a = P61+P62 (last run 273950)
- P6b = P63+P64 (first run 274006)
- COOOLplots_P6.pdf: COOOL plots of the planes given in the tables - period P6
- Runlist_P6.txt: COOOL_Runlist_P6: conversion relative to absolute run number
- cool_badrunlist_P6.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P7	from channel	to channel	from run	to run	production	Monte Carlo	beam
PA02X1__	380	571	274508	274901		exclude P7	
ST03U1da	32	63	274508	274901	exclude P7	exclude P7	
ST03U1ua	32	63	274508	274901	exclude P7	exclude P7	

- COOOLplots_P7.pdf: COOOL plots of the planes given in the table - period P7
- Runlist_P7.txt: COOOL_Runlist_P7: conversion relative to absolute run number

- cool_badrunlist_P7.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P8	from channel	to channel	from run	to run	production	Monte Carlo	beam
MB02X2db	124	139	275315	275393		exclude	
MB02X2ub	124	139	275315	275393		exclude	
ST03U1da	32	95	274946	275393	exclude P8	exclude P8	
ST03U1ua	32	95	274946	275393	exclude P8	exclude P8	

- COOOLplots_P8.pdf: COOOL plots of the planes given in the table - period P8
- Runlist_P8.txt: COOOL_Runlist_P8: conversion relative to absolute run number
- cool_badrunlist_P8.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P9	from channel	to channel	from run	to run	production	Monte Carlo	beam
MA01Y1__	-1	-1	275536	275873		exclude	
PA03U1__	0	187	275709	275908	exclude P9b	exclude P9b	
PA05V1__	128	191	275709	275908	exclude P9	exclude P9	
ST03U1da	32	95	275478	275908	exclude P9	exclude P9	
ST03U1ua	32	95	275478	275908	exclude P9	exclude P9	

We propose to split the period P9 in two halves:

- P9a = P91+P92+P93a (last run 275708)
- P9b = P93b+P94+P95+P96 (first run 275709)
- COOOLplots_P9.pdf: COOOL plots of the planes given in the table - period P9
- Runlist_P9.txt: COOOL_Runlist_P9: conversion relative to absolute run number
- cool_badrunlist_P9.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P10	from channel	to channel	from run	to run	production	Monte Carlo	beam
GP02P1__	-1	-1	276157	276207		exclude	
GP02U1__	-1	-1	276157	276207		exclude	
GP02V1__	-1	-1	276157	276207		exclude	
PA04V1__	190	379	276065	276120		exclude	
PA04V1__	0	189	276120	276132		exclude	
PA05V1__	128	191	275910	276318	exclude P10	exclude P10	
ST03U1da	32	95	275910	276318	exclude P10	exclude P10	
ST03U1ua	32	95	275910	276318	exclude P10	exclude P10	

- COOOLplots_P10.pdf: COOOL plots of the planes given in the table - period P10
- Runlist_P10.txt: COOOL_Runlist_P10: conversion relative to absolute run number
- cool_badrunlist_P10.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)

period P11	from channel	to channel	from run	to run	production	Monte Carlo	beam
ST03U1da	32	95	276384	276408	exclude P11	exclude P11	
ST03U1ua	32	95	276384	276408	exclude P11	exclude P11	

- COOOLplots_P11.pdf: COOOL plots of the planes given in the table - period P11
- Runlist_P11.txt: COOOL_Runlist_P11: conversion relative to absolute run number

- cool_badrunlist_P11.dat: COOOL BadRunlist: list of runs not analyzed (reason: problem with cool file or statistics)
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