

DZERO Run II Preliminary Results by Physics Groups

DØ Archive	Publication Reference	Superceded by	Conference Note Number	Subject/Title	Date of Approval	Luminosity pb ⁻¹
B Physics						
B00			4481-CONF	Reconstruction of B hadron signals	8/4/2004	250
B01	B04A			X(3872) observation and properties		230
B02			4370	Bd oscillation with opposite-side tag	3/20/2004	250
B03	B04D		4376	Neutral and charged B lifetime ratio	3/29/2004	250
B04			4367	Bd lifetime from J/ψ Ks decay	3/18/2004	114
B05	B05B		4371	Semileptonic B decays to narrow D** mesons	3/19/2004	250
B06	B04C	B21	4514-CONF	Bs → μμ limit	8/2/2004	240
B07	B04B		4519-CONF	Bs lifetime from J/ψ phi decays	8/5/2004	220
B08		B30	4517	Study of B**	8/1/2004	350
B09	B05A		4523	Upsilon cross section	8/2/2004	160
B10			4505	Bd oscillation with same-side tag	7/31/2004	250
B11	B04E		4558-CONF	Λb lifetime from J/ψ Λ decay	8/6/2004	250
B12			4539-CONF	Bc meson properties	8/16/2004	210
B13			4581-CONF	Reconstruction of Bs → μDsX decays	8/24/2004	200
B14			4524-CONF	Reconstruction of Λb in semileptonic decays	8/26/2004	350
B15			4578-CONF	Bd oscillation with 3-combined taggers	8/30/2004	200
B16	B06C		4729-CONF	A high statistics measurement of the Bs lifetime	3/3/2005	400
B17	B05C	B36	4557	Lifetime difference in the Bs system	3/4/2005	450
B18		B23	4732-CONF	Sensitivity analysis of the rare decay Bs → μμφ	3/4/2005	300
B19			4727-CONF	Evidence of Bs → Ds1(2536) μν X	3/4/2005	490
B20		B27	4724	Bs mixing with semileptonic decays and OS tagging	3/5/2005	460
B21			4733-CONF	Bs → μμ limit update	3/9/2005	300
B22			4731-CONF	FCNC charm decay and Ds → φ π → π μ μ	3/12/2005	540
B23	B06B		4862-CONF	Search for rare decay Bs → μμφ	6/25/2005	300
B24			4869-CONF	Observation of the Decay Bs → ψ(2S)φ and a measurement...	7/15/2005	300
B25		B32	4848-CONF	B flavor tagging with opposite-side soft electrons	7/18/2005	420
B26		B32	4875	Combined opposite-side flavor tagging	7/18/2005	460
B27			4881	Bs mixing with Bs → DsμX, Ds → φπ and opposite-side tagging	7/18/2005	610
B28			4878-CONF	Bs mixing with Bs → DsμX, Ds → K*K and opposite-side tagging	7/18/2005	610
B29			5042-CONF	Measurement of the CP-violation parameter of \$B^0\$ mixing...	3/2/2006	970
B30			5026-CONF	Study of Excited B Mesons	3/3/2006	1000

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B31		5027-CONF	First Direct Observation of the B^{*0} 2s Meson	3/3/2006	1000
B32		5029	B_d Mixing Measurement Using Opposite-side Flavor Tagging	3/4/2006	900
B33		5038-CONF	Search for Flavor Changing Neutral Currents, $D \rightarrow \bar{P}i\bar{\mu}\mu$	3/10/2006	1000
B34	B06A	5045-CONF	A Study of $Bs0$-$Bs0\bar{b}$ Oscillations	3/14/2006	1000
B35		5034-CONF	First Measurement of $Br(B_s^0 \rightarrow D_{s1}^-(2536)\mu^+\nu)$	3/13/2006	1000
B36	B39	5042	Measurement of the Lifetime Difference in the Bs System	3/17/2006	900
B37		5068-CONF	Measurement of $B(Bs \rightarrow Ds Ds)$	3/21/2006	1000
B38		5009-CONF	A New Expected Upper Limit for the Rare Decay $Bs \rightarrow \bar{\mu}\mu$	3/21/2006	1000
B39		5144-CONF	Lifetime Difference and Mixing Phase in the Bs System	7/20/2006	1000
B40		5143-CONF	Measurement of the time-integrated untagged decay rate asymmetry	7/21/2006	1000
B41		5189-CONF	Combination of D0 Results on CP Violating Phase of the Bs System	7/21/2006	1000
B42		5174-CONF	Bs Mixing in $Bs \rightarrow Ds + e + X$, $Ds \rightarrow \phi\pi$ Decay Mode	7/21/2006	1000
B43		5172-CONF	Bs Mixing studies with $Bs \rightarrow Ds + \mu + X$ ($Ds \rightarrow K^*K$) Decay...	7/21/2006	1000
B44		5207	Combination of Bs-$Bs\bar{b}$ Oscillation Results from D0	7/21/2006	1000
B45			Measurement of the Lambda B lifetime in the decay channel $J/\Psi(\mu\bar{\mu})$	8/18/2006	1000

Electroweak

E01	E09		Measurement of $W\gamma$ cross section...	3/20/2004	160
E02	E04B	4526-CONF	Measurement of $\sigma(pp\bar{b} \rightarrow Z) Br(Z \rightarrow \tau\tau)$...	8/2/2004	210
E03	E04A	4542	Measurement of WW cross section in dilepton final...	8/3/2004	250
E04	E05A	4488	Measurement of $Z\gamma$ cross section	8/6/2004	180
E05	E10	4569-CONF	Search for WZ production in trilepton final state	8/12/2004	170
E06		4403-CONF	Measurement of $W \rightarrow e\nu$ and $Z \rightarrow ee$ cross sections	8/12/2004	180
E07		4573	Measurement of inclusive $Z \rightarrow \mu\mu$ cross section...	8/11/2004	150
E08		4563-CONF	Direct measurement of the W boson width...	8/23/2004	180
E09	E05B	4685-CONF	Wq cross section and anomalous coupling limits	2/1/2005	160
E10	E05C	4649-CONF	WZ cross section and anomalous coupling limits	2/1/2005	300
E11		4750	W cross section in muon channel	3/10/2005	96
E12			$Z \rightarrow ee$ rapidity distribution	3/14/2005	340
E13		4757-CONF	$Z \rightarrow ee$ differential cross section and FB asymmetry	3/11/2005	180
E14		5061-CONF	A Measurement of the $W \rightarrow \mu\nu$ Charge Asymmetry...	3/13/2006	230
E15		5110-CONF	Measurement of the WZ Diboson Production Cross Section in Trilepto...	6/22/2006	760-880
E16	E06B	5160-CONF	Limits on Anomalous Trilinear Gauge Couplings from $WW \rightarrow ee$, $WW \rightarrow \mu\mu$	6/23/2006	230
E17		5156-CONF	Study of $Z(\gamma) \rightarrow ee(\gamma)$ Events in D0 RunII p17 Data	7/25/2006	1000

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E18	Measurement of the Z Boson Transverse Momentum...				7/25/2006	960
Higgs						
H01	H08	4366-CONF	Search for neutral Higgs bosons in multi-jet events		3/17/2004	130
H02		4374-CONF	Search for non-SM Higgs boson in $\gamma\gamma$ channel		3/18/2004	190
H03	H09	4387	Search for $H \rightarrow WW^*$ in dilepton final state		3/24/2004	180
H04	H04C	4388	Measurement of Zb/Zj cross section ratio		3/29/2004	180
H05	H04B	H12	4399-CONF	Search for Wbb and WH production	3/29/2004	170
H06	H04A			Search for doubly-charged Higgs boson in $\mu\mu\mu\mu\ldots$		110
H07		4579-CONF	Search for techni-rho and techni-pion in electron channel		8/26/2004	240
H08	H05A	H23	4718-CONF	Search for neutral Higgs bosons in multi-jet events	2/24/2005	260
H09	H05B	H16	4760-CONF	Search for $H \rightarrow WW^*$ in dilepton final state	3/14/2005	300
H10		H17	4774-CONF	Search for SM Higgs in $ZH \rightarrow vvbb$ final state	4/11/2005	260
H11	H06D		4794-CONF	$Z(\rightarrow ee) + n$-jet cross section ratios	4/22/2005	340
H12		H18	4896-CONF	Search for Wbb and WH in electron channel	5/16/2005	382
H13	H06C		4861-CONF	Search for Higgs bosons in $WH \rightarrow WWW^* \rightarrow$ like sign dilepton final state	7/7/2005	370
H14	H06A		5028-CONF	Search for Neutral Higgs Bosons Decaying to Tau Pairs...	3/9/2006	350
H15			5066-CONF	$Z+jets$ in the D0 Detector: A comparison, Sherpa v. Pythia	3/17/2006	950
H16			5063-CONF	Search for the Higgs Boson in $H \rightarrow WW \rightarrow ll'$ Decay...	3/17/2006	950
H17	H06B		5060-CONF	Search for SM Higgs in $ZH \rightarrow vvbb$ final state	3/18/2006	260
H18			5054-CONF	A Search for WH Production	3/19/2006	380
H19			5056-CONF	Limits on Standard Model Higgs Boson Production	3/19/2006	varies
H20			5154-CONF	Search for Techniparticles at D0	7/3/2006	390
H21			5194-CONF	Search for the Higgs Boson in $H \rightarrow WW \rightarrow \mu\nu\mu\nu + X$ Decay...	7/20/2006	930
H22			5205-CONF	Evidence for $Z \rightarrow bb$ Decays at D0	7/25/2006	300
H23			5503-CONF	Search for Neutral Higgs Bosons at High $\tan(\beta)$ in Multijet Events	7/25/2006	900
H24				Search for Neutral Higgs Bosons at High $\tan(b)$ in the $b(h/H/A) \rightarrow btaut$	7/25/2006	340
H25			5186-CONF	Search for $ZH(\rightarrow llbb)$ Production...	7/25/2006	320 - 390
H26				Combined D0 and CDF Upper Limit on SM Higgs Boson Production	7/25/2006	300-1000
New Phenomena						
N01	N39	4336-CONF	Large extra dimension in the diEM channels		2/25/2004	200
N02		4349-CONF	TeV-1 extra dimension in the dielectron channel		3/17/2004	200
N03		4375-CONF	Heavy Z' bosons in the dielectron channel		3/17/2004	200

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<u>N04</u>	<u>N04A</u>		GMSB supersymmetry in diphoton events		263	
<u>N05</u>		<u>N31</u>	4380-CONF Squarks and gluinos in the jets+MET topology	4/1/2004	85	
<u>N06</u>			4400 Large extra dimension in jets+MET	3/19/2004	85	
<u>N07</u>	<u>N04C</u>		4401 First general leptoquarks	3/18/2004	175	
<u>N08</u>		<u>(N25)</u>	4543 Chargino/neutralino in ee+l final states	8/4/2004	240	
<u>N09</u>		<u>N45</u>	4404-CONF mSUGRA supersymmetry in the like-sign dimuon...	5/25/2004	150	
<u>N10</u>		<u>N46</u>	4537-CONF Chargino/neutralino in ee+l final states	8/5/2004	250	
<u>N11</u>		<u>N25</u>	4546-CONF Chargino/neutralino in ll final states (combined)	8/5/2004	147-250	
<u>N12</u>	<u>N05B</u>		4484-CONF Randall-Sundrum gravitons in dielectron channel	8/1/2004	200	
<u>N13</u>	<u>N06C</u>		4522-CONF RPV supersymmetry in ee+l final states	8/4/2004	240	
<u>N14</u>		<u>(N25)</u>	4482-CONF Chargino/neutralino in mu+mu+l final states	8/3/2004	220	
<u>N15</u>	<u>N06D</u>		4535-CONF Resonant slepton production via the LQD coupling	8/10/2004	150	
<u>N16</u>	<u>N06C</u>		4490-CONF RPV supersymmetry in mu+mu+l final states	8/4/2004	160	
<u>N17</u>	<u>N05B</u>	<u>N49</u>	4533-CONF Randall-Sundrum gravitons in diEM channel	8/9/2004	200	
<u>N18</u>	<u>N04B</u>		4572-CONF Anomalous heavy-flavor in association with W boson	8/11/2004	145-164	
<u>N19</u>	<u>N05C</u>		4576-CONF Large extra dimension in the dimuon channel	8/12/2004	250	
<u>N20</u>			4577-CONF Heavy Z' bosons in the dimuon channel	8/12/2004	250	
<u>N21</u>			4580-CONF Scalar leptoquarks in the acoplanar jet topology	8/24/2004	85	
<u>N22</u>			4561-CONF Technicolor rho and omega in the dielectron channel	8/6/2004	200	
<u>N23</u>			4552-CONF Quark-Electron compositeness in dielectron channel	10/18/2004	270	
<u>N24</u>	<u>N06C</u>		4595-CONF RPV SUSY: eet final state (l133 coupling)	2/1/2005	200	
<u>N25</u>	<u>N05A</u>		4738-CONF Search for chargino/neutralino with three leptons	3/2/2005	320	
<u>N26</u>			4922-CONF Lepton-quark compositeness in dimuon channel	3/3/2005	400	
<u>N27</u>			4746-CONF Charged massive stable particles	3/3/2005	390	
<u>N28</u>			4741-CONF Chargino/neutralino search with et+1	3/4/2005	325	
<u>N29</u>			4742-CONF Chargino/neutralino search with mt+1	3/4/2005	325	
<u>N30</u>			4740-CONF Chargino/neutralino search: combination with taus	3/4/2005	325	
<u>N31</u>	<u>N06A</u>		4737-CONF Squarks and gluinos in the jets+MET topology	3/4/2005	310	
<u>N32</u>	<u>N05D</u>		4829-CONF Pair production of 2nd generation LQ	6/17/2005	300	
<u>N33</u>				CDF and DØ GMSB combination	4/1/2005	260
<u>N34</u>	<u>N06H</u>		4832-CONF Search for direct production of scalar bottom quarks	6/24/2005	310	
<u>N35</u>			4866-CONF Search for the lightest stop in bbmuuv final state	7/12/2005	340	
<u>N36</u>			4893-CONF Search for heavy resonances decaying into Z+jets	7/20/2005	380	
<u>N37</u>	<u>N06G</u>		5023-CONF Search for Neutral Long Lived Particles	2/15/2006	380	
<u>N38</u>	<u>N06B</u>		5044-CONF Search for Excited Muons	3/1/2006	390	

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N39		5020-CONF	Search for GMSB SUSY in Diphoton Events...	3/9/2006	760
N40			Search for Light Scalar Top Quark in bbeμVV	3/9/2006	350
N41	N06F	5040-CONF	Search for Scalar Leptoquarks in Acoplanar Jet Topology	3/10/2006	310
N42		5058-CONF	Search for Stopped Gluinos	3/13/2006	350
N43		5050-CONF	Stop Search Combination Analysis: emu and mumu	3/17/2006	350
N44		5134-CONF	Search for Scalar Top Pair Production in the Acoplanar Jet Topology.	6/7/2006	310
N45		5126-CONF	Search for Associated Production of Charginos and Neutralinos in the	6/8/2006	1000
N46		5127-CONF	Search for Associated Production of Charginos and Neutralinos in Fin	6/8/2006	1000
N47		5176-CONF	Search for 3rd Generation Leptoquarks...	7/12/2006	310
N48		5191-CONF	Search for New Heavy Gauge Bosons Decaying in the Electron Chan	7/20/2006	900
N49		5195-CONF	Search for Randall-Sundrum Gravitons in Dielectron and Diphoton...	7/25/2006	1000
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QCD					
Q01	Q04A	4381-CONF	Dijet azimuthal decorrelations at central rapidities	4/7/2004	150
Q02		4382-CONF	Inclusive jet and dijet cross section	3/25/2004	140
Q03		4754-CONF	High pT mu-tagged jet cross section	3/10/2005	300
Q04	Q06	4751-CONF	Measurement of the inclusive jet cross section	3/14/2005	380
Q05	Q05A	4859-CONF	Isolated photon cross section in the central rapidity region...	6/20/2005	320
Q06		5087	Measurement of the inclusive jet cross section...	3/15/2006	800
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Top Physics					
T01	T05A		Cross Section: l+jets topological		
T02	T23	4428	Cross Section: alljet	4/8/2004	162
T03	T05E	T15	Cross Section: dilepton topology	3/26/2004	140-156
T04		4528-CONF	Cross Section: eμ with SVT	8/3/2004	158
T05	T05B	T18	Cross Section: l+jets with b-tagging	8/10/2004	158-169
T06	T05C		W helicity in ttbar decays in l+jets/lifetime	8/6/2004	158-169
T07	T05C		W helicity in ttbar decays in l+jets/topo	8/12/2004	158-169
T08	T17	4574	Mass: l+jets final states	8/12/2004	160
T09	T13	4510-CONF	Single top search	8/13/2004	156-169
T10	T14	4586-CONF	Br(t\rightarrowWb)/B(t\rightarrowWq)	8/26/2004	158-159
T11	T25, T26	4725-CONF	Measurement of the top quark mass in the dilepton...	2/24/2005	230
T12		4728-CONF	Top quark mass: l+jets/template	3/1/2005	230

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T13	T05D, T06B	T20	4722-CONF	Improved single top search	3/4/2005	230
T14		T06A	4833-CONF	Measurement of Br($t \rightarrow Wb$)/Br($t \rightarrow Wq$) and $\sigma(pp\bar{p} \rightarrow tt\bar{b})$	6/16/2005	230
T15			4850-CONF	Cross Section: dilepton topology	7/1/2005	370
T16		T27	4839-CONF	W helicity in $t\bar{t}$ dilepton decays	7/5/2005	370
T17		T28	4874-CONF	Mass: I+jets Matrix Element	7/18/2005	320
T18			4888-CONF	Cross Section: I+jets with b-tagging	7/19/2005	365
T19	T06D		4876-CONF	Measurement of the Charge of the Top Quark...	10/18/2005	365
T20			4871-CONF	Single top search	7/20/2005	370
T21			4880-CONF	Search for a $t\bar{t}$ Resonance	7/21/2005	370
T22		T31	4892	Combination of CDF and D0 Results on the Top-Quark Mass	7/21/2005	varies
T23		T30	4879-CONF	Measurement of the top cross section in the all jets channel	9/12/2005	360
T24			5031-CONF	Measurement of the $t\bar{t}$ Cross Section ... I+track Channel...	3/6/2006	370
T25		T33	5032-CONF	Measurement of the top quark mass in the dilepton channel	3/9/2006	370
T26		T33	5047-CONF	Measurement of m_{top} in Dilepton Events with Neutrino Weighting	3/9/2006	370
T27	T06C		5046-CONF	Measurement of the W Helicity in Top Decay	3/17/2006	370
T28			5053-CONF	Top Quark Mass with the Matrix Element Method in I+jets	3/17/2006	370
T29			5024-CONF	W' Search in the Single Top Sample	3/16/2006	230
T30			5057-CONF	Measurement of the $t\bar{t}$ cross section ... in the multijet final state	3/17/2006	360
T31			5064	Combination of CDF and D0 Results on the Top-Quark Mass	3/19/2006	varies
T32			5099-CONF	Top Mass Measurement in the Lepton+Jets Channel Using the Ideogr	5/25/2006	370
T33			5152-CONF	Top Mass Measurement in the Dilepton Channel	6/30/2006	370
T34			5171-CONF	Measurement of M_{top} in $e\mu$ Events with Neutrino Weighting	7/20/2006	835
T35			5200-CONF	Measurement of M_{top} in the $e\mu$ Channel using the Matrix Weighting Me	7/20/2006	835