



POLITECNICO DI TORINO
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"Philofluid" turbulent flow database

Original

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PHILOFLUID DATABASE

(in completion)

Contents

1 2D Shearless mixing

Direct numerical simulations of the interaction between two homogeneous and isotropic regions

E_1/E_2 : kinetic energy ratio

ℓ_1/ℓ_2 : integral scale ratio

Re_λ : Taylor microscale Reynolds number

Sc : Schmidt number (scalar transport)

	3
1.1 Grid 1024^3 , $E_1/E_2 = 6, 6$ $\ell_1/\ell_2 = 1$	3
1.2 Grid 1024^2 , $E_1/E_2 = 12$ $\ell_1/\ell_2 = 1$	3
1.3 Grid 1024^2 , $E_1/E_2 = 40$ $\ell_1/\ell_2 = 1$	3
1.4 Grid 1024^2 , $E_1/E_2 = 300$ $\ell_1/\ell_2 = 1$	4
1.5 Grid 1024^2 , $E_1/E_2 = 10^6$ $\ell_1/\ell_2 = 1$	4
1.6 Grid 1024^2 , $E_1/E_2 = 6, 6$ $\ell_1/\ell_2 = 1$, passive scalar $Sc = 1$	4
1.7 Grid 1024^2 , $E_1/E_2 = 1$ $\ell_1/\ell_2 = 1$, passive scalar $Sc = 1$	4
1.8 Grid 1024^2 , $E_1/E_2 = 1$ and 10^4 , $\ell_1/\ell_2 = 1$, lagrangian particles	4

2 3D Shearless mixing

Direct numerical simulations of the interaction between two homogeneous and isotropic regions

E_1/E_2 : kinetic energy ratio

ℓ_1/ℓ_2 : integral scale ratio

Re_λ : Taylor microscale Reynolds number

Sc : Schmidt number (scalar transport)

References: *J.Fluid Mech* 2006, *Phys.Rev.E* 2008, *Phys.Rev.Lett.* 2011, *Phys.D* 2012

	5
2.1 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 1$	5
2.2 Data $Re_\lambda = 45$, $E_1/E_2 = 40$ $\ell_1/\ell_2 = 1$	5
2.3 Data $Re_\lambda = 45$, $E_1/E_2 = 40$ $\ell_1/\ell_2 = 0.6$	5
2.4 Data $Re_\lambda = 45$, $E_1/E_2 = 100$ $\ell_1/\ell_2 = 1$	5
2.5 Data $Re_\lambda = 45$, $E_1/E_2 = 300$ $\ell_1/\ell_2 = 1$	5
2.6 Data $Re_\lambda = 45$, $E_1/E_2 = 10^6$ $\ell_1/\ell_2 = 1$, domain 4π and 8π	6
2.7 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 0.6$	6
2.8 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 1.5$	6
2.9 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 2.1$	6
2.10 Data $Re_\lambda = 71$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 1$	7
2.11 Data $Re_\lambda = 150$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 1$	7
2.12 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 1.5$	7
2.13 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 2.1$	7
2.14 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 2.8$	7
2.15 Data $Re_\lambda = 250$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 2.4$	8
2.16 Data $Re_\lambda = 150$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 1$, passive scalar $Sc = 1$	8
2.17 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 1$, passive scalar $Sc = 1$	8

3	Shearless mixing in presence of stable stratification	
	Direct numerical simulations of the interaction between two homogeneous and isotropic regions in presence of a stable density stratification	
	E_1/E_2 : kinetic energy ratio	
	ℓ_1/ℓ_2 : integral scale ratio	
	Re_λ : Taylor microscale Reynolds number	
	Fr : Froude number	9
3.1	Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$, $\ell_1/\ell_2 = 1$, $Fr = 1$	9
3.2	Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$, $\ell_1/\ell_2 = 1$, $Fr = 5$	9
3.3	Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$, $\ell_1/\ell_2 = 1$, $Fr = 10$	9
4	Hydrodynamic Stability of Shear Flows	9
4.1	Poiseuille Channel Flow (ϕ : angle of obliquity, k : polar wavenumber)	9
4.2	Wake Flow (ϕ : angle of obliquity, x_0 : longitudinal wake section, k : polar wavenumber)	10
4.3	Blasius Boundary Layer Flow (ϕ : angle of obliquity, β : pressure gradient, k : polar wavenumber)	10
4.4	Cross-Flow Boundary Layer (ϕ : angle of obliquity, β : pressure gradient, θ : cross-flow angle k : polar wavenumber)	10
5	Cavity flow (cavity in a channel)	
	Direct numerical simulation of the flow above a cavity in a channel. Re is the bulk Reynolds number	10
5.1	$Re = 150$	10
5.2	$Re = 250$	10
5.3	$Re = 2900$	11
6	Channel flow	
	Large-Eddy simulations of a channel flow with approximate boundary conditions and non explicit approximation of the non commutation terms.	
	Legend:	
	Re_τ : friction Reynolds number	
	b.c.: approximate boundary conditions type (A or B, see <i>Ph.Fluids</i> 2004)	
	y^+ : position of the computational boundary in wall units	
	References: <i>Phys.Fluids</i> 2003 and 2004.	11
6.1	$Re_\tau = 180$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$	11
6.2	$Re_\tau = 180$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$	11
6.3	$Re_\tau = 180$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$, noncommutation correction	11
6.4	$Re_\tau = 180$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$, noncommutation correction	11
6.5	$Re_\tau = 590$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$	11
6.6	$Re_\tau = 590$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$	12
6.7	$Re_\tau = 590$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$, noncommutation correction	12
6.8	$Re_\tau = 590$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$, noncommutation correction	12

7 Filtered turbulent fields

Analysis of enstrophy and stretching in filtered homogeneous and isotropic turbulence

Reference: <i>Comp.Phys.comm.</i> (2007)	12
7.1 Original data (F.Toschi)	12
7.2 Filter class: “cross”	12
7.3 Filter class: “sphere”	12
7.4 Filter class: “filament”	13
7.5 Filter class: “sheet”	13

1 2D Shearless mixing

1.1 Grid 1024^3 , $E_1/E_2 = 6,6$ $\ell_1/\ell_2 = 1$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → root disk
- **PoliTO - DIMEAS**, Computer “dns3”, disco 2

Address:

130.192.25.60/2D_Mixing/Data/EE66/
130.192.25.49/DATA_SHARED/2D_Mixing/1024/LAURIS/EE66/

Size: 4 Gb

1.2 Grid 1024^2 , $E_1/E_2 = 12$ $\ell_1/\ell_2 = 1$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → root disk

Address:

130.192.25.60/2D_Mixing/Data/EE12/

Size: 4 Gb

1.3 Grid 1024^2 , $E_1/E_2 = 40$ $\ell_1/\ell_2 = 1$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → root disk
- **PoliTO - DIMEAS**, Computer “dns3”, disco 2

Address:

130.192.25.60/2D_Mixing/Data/EE40/
130.192.25.49/DATA_SHARED/2D_Mixing/1024/LAURIS/EE40/

Size: 80 Gb

1.4 Grid 1024^2 , $E_1/E_2 = 300$ $\ell_1/\ell_2 = 1$

Physical collocation:

– **PoliTO - DIMEAS**, Network disk system Lacie A → root disk

Address:

130.192.25.60/2D_Mixing/Data/EE300/

Size: 80 Gb

1.5 Grid 1024^2 , $E_1/E_2 = 10^6$ $\ell_1/\ell_2 = 1$

Physical collocation:

– **PoliTO - DIMEAS**, Network disk system Lacie A → root disk

Address:

130.192.25.60/2D_Mixing/Data/EE10_6/

Size: 80 Gb

1.6 Grid 1024^2 , $E_1/E_2 = 6,6$ $\ell_1/\ell_2 = 1$, **passive scalar** $Sc = 1$

Physical collocation:

– **PoliTO - DIMEAS**, Network disk system Lacie B → usb disk B1

Address:

130.192.25.166/Lacie (usb)/scalare_passivo/2Dscalar/PASS/SCHMIDT_1_EE66/

Size: 80 Gb

1.7 Grid 1024^2 , $E_1/E_2 = 1$ $\ell_1/\ell_2 = 1$, **passive scalar** $Sc = 1$

Physical collocation:

– **PoliTO - DIMEAS**, Network disk system Lacie B → usb disk B1

Address:

130.192.25.166/Lacie (usb)/scalare_passivo/PASS/SCHMIDT_1_EE0/

Size: 80 Gb

1.8 Grid 1024^2 , $E_1/E_2 = 1$ and 10^4 , $\ell_1/\ell_2 = 1$, **lagrangian particles**

Physical collocation:

– **PoliTO - DIMEAS**, Computer “dns3”, disco 2

Address:

130.192.25.49/DATA_SHARED/2D_Mixing/1024/LAURIS/LAGRANGIAN/

Size: 80 Gb

2 3D Shearless mixing

2.1 Data $Re_\lambda = 45$, $E_1/E_2 = 6, 7$ $\ell_1/\ell_2 = 1$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A2
- **CINECA**, iCFD database

Address:

130.192.25.60/Disco2/Re45/E6_L1/

Size: 5 Gb

2.2 Data $Re_\lambda = 45$, $E_1/E_2 = 40$ $\ell_1/\ell_2 = 1$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A2
- **CINECA**, iCFD database

Address:

130.192.25.60/Disco2/Re45/E6_L40/

Size: 5 Gb

2.3 Data $Re_\lambda = 45$, $E_1/E_2 = 40$ $\ell_1/\ell_2 = 0.6$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A2

Address:

130.192.25.60/Disco2/Re45/E40_06/

Size: 5 Gb

2.4 Data $Re_\lambda = 45$, $E_1/E_2 = 100$ $\ell_1/\ell_2 = 1$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A2
- **CINECA**, iCFD database

Address:

130.192.25.60/Disco2/Re45/E100_L1/

Size: 5 Gb

2.5 Data $Re_\lambda = 45$, $E_1/E_2 = 300$ $\ell_1/\ell_2 = 1$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A2
- **CINECA**, iCFD database

Address:

130.192.25.60/Disco2/Re45/E300_L1/

Size: 5 Gb

2.6 Data $Re_\lambda = 45$, $E_1/E_2 = 10^6$ $\ell_1/\ell_2 = 1$, domain 4π and 8π

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A2
- **CINECA**, iCFD database

Address:

130.192.25.60/Disco2/Re45/E10_6_L1/

Size: 10 Gb

2.7 Data $Re_\lambda = 45$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 0.6$

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A2
- **PoliTO - DIMEAS**, Computer “avdotia2”
- **PoliTO - DIMEAS**, CD “B128”

Address:

130.192.25.60/Disco2/Re45/E6_L06/
130.192.25.141/home/michele/cubo/B/
CD: B128

Size: 5 Gb

2.8 Data $Re_\lambda = 45$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 1.5$

Physical collocation:

- **PoliTO - DIMEAS**, Computer “avdotia2”
- **PoliTO - DIMEAS**, CD “S128”

Address:

130.192.25.141/home/michele/cubo/S/
CD: S128

Size: 5 Gb

2.9 Data $Re_\lambda = 45$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 2.1$

Physical collocation:

- **PoliTO - DIMEAS**, Computer “avdotia2”
- **PoliTO - DIMEAS**, CD “C128”

Address:

130.192.25.141/home/michele/cubo/C2/
CD: C128

Size: 5 Gb

2.10 Data $Re_\lambda = 71$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 1$

Physical collocation:

– **Polito - DIMEAS**, Computer “avdotia2”

Address:

130.192.25.141/home/disk4/cubo/prova256_omp_sp/omp170_340/

Size: 25 Gb

2.11 Data $Re_\lambda = 150$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 1$

Physical collocation:

– **Polito - DIMEAS**, Network disk system Lacie A → usb disk A2

– **CINECA**, “cart” tape archive, user “miovieno”, dir. “scal150”

Address:

130.192.25.60/Disco2/Re150/E6_L1_R150/

Cineca: miovieno//cart//scal150/ file: s150_u*.tar

Size: 400 Gb

2.12 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 1.5$

Physical collocation:

– **Polito - DIMEAS**, Network disk system Lacie A → usb disk A2

Address:

130.192.25.60/Disco2/Re150/E1_L15_R150/

Size: 350 Gb

2.13 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 2.1$

Physical collocation:

– **Polito - DIMEAS**, Network disk system Lacie A → usb disk A2

– **CINECA**, “cart” tape archive, user “miovieno”, dir. ‘elle21/’.

Address:

130.192.25.60/Disco2/Re150/E1_L21_R150/

Cineca: miovieno//cart//elle21/

Size: 350 Gb

2.14 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 2.8$

Physical collocation:

– **Polito - DIMEAS**, Network disk system Lacie A → usb disk A2

– **CINECA**, “cart” tape archive, user “miovieno”, dir. ‘elle28/’.

Address:

130.192.25.60/Disco2/Re150/E1_L28_R150/
Cineca: miovieno//cart//elle28/

Size: 350 Gb

1300 time instans in 1.5 eddy turnover times for Lagrangian analysis:

Physical collocation:

– **CINECA**, SP6 scratch disk, user “lgallana”.

Size: 6 Tb

2.15 Data $Re_\lambda = 250$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 2.4$

Physical collocation:

– **PolITO - DIMEAS**, Network disk system Lacie A → usb disks A2 and A1

– **CINECA**, “cart” tape archive, user “miovieno”, dir. “m250”.

Address:

130.192.25.60/Disco2/Re250/L24/
130.192.25.60/Disco1/Mescolamenti_3D/Re250/
Cineca: miovieno//cart//m250/

Size: 500 Gb

2.16 Data $Re_\lambda = 150$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 1$, passive scalar $Sc = 1$

Physical collocation:

– **CINECA**, “cart” tape archive, user “miovieno”, dir. “scal150”

– **PolITO - DIMEAS**, Network disk system Lacie B → usb disk B1

Address:

Cineca: miovieno//cart//scal150/
130.192.25.166/Lacie (usb)/scalare_passivo/3Dscalar/

Size: 130 Gb

2.17 Data $Re_\lambda = 150$, $E_1/E_2 = 1$ $\ell_1/\ell_2 = 1$, passive scalar $Sc = 1$

Physical collocation:

– **CINECA**, “cart” tape archive, user “miovieno”, dir. “scalunif”

Address:

Cineca: miovieno//cart//scalunif/

Size: 500 Gb (velocity fields included)

3 Shearless mixing in presence of stable stratification

3.1 Data $Re_\lambda = 45$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 1$, $Fr = 1$

Physical collocation:

– **PoliTO - Labinf**, user “snft4”

Address:

`cclix7.polito.it flussi_stratificati/re45/Fr1`

Size: 60 Gb

3.2 Data $Re_\lambda = 45$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 1$, $Fr = 5$

Physical collocation:

– **PoliTO - Labinf**, user “snft4”

Address:

`cclix7.polito.it flussi_stratificati/re45/Fr5`

Size: 60 Gb

3.3 Data $Re_\lambda = 45$, $E_1/E_2 = 6,7$ $\ell_1/\ell_2 = 1$, $Fr = 10$

Physical collocation:

– **PoliTO - Labinf**, user “snft4”

Address:

`cclix7.polito.it flussi_stratificati/re45/Fr10`

Size: 60 Gb

4 Hydrodynamic Stability of Shear Flows

Address: `130.192.25.166/Lacie(usb)#2` and `130.192.25.166/disco_madre`

Physical Collocation: **PoliTO - DIMEAS**, Network disk system Lacie B

Total size: 4 Tb (included data at **PoliTO - Labinf**, currently under reorganization)

4.1 Poiseuille Channel Flow (ϕ : angle of obliquity, k : polar wavenumber)

- $Re = 500$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.05, 1000]$.
- $Re = 10000$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.05, 1000]$.

4.2 Wake Flow (ϕ : angle of obliquity, x_0 : longitudinal wake section, k : polar wavenumber)

- $Re = 30$, $x_0 = 10, 50$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.1, 500]$.
- $Re = 50$, $x_0 = 10$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.1, 500]$.
- $Re = 100$, $x_0 = 10, 50$, $\phi = 0, \pi/4, \pi/2$, symmetric and antisymmetric initial conditions, $k \in [0.1, 500]$.

4.3 Blasius Boundary Layer Flow (ϕ : angle of obliquity, β : pressure gradient, k : polar wavenumber)

- $Re_{\delta^*} = 100$, $\phi = 0, \pi/4, \pi/2$, $k \in [0.02, 2]$.
- $Re_{\delta^*} = 5000$, $\phi = 0, \pi/4, \pi/2$, $k \in [0.02, 2]$.

4.4 Cross-Flow Boundary Layer (ϕ : angle of obliquity, β : pressure gradient, θ : cross-flow angle k : polar wavenumber)

- $Re_{\delta^*} = 100$, $\beta = 1, -0.1988$, $\phi = 0, \pi/4, \pi/2$, $\theta = \pi/6, \pi/4, \pi/3$, $k \in [0.02, 2]$.
- $Re_{\delta^*} = 5000$, $\beta = 1, -0.1988$, $\phi = 0, \pi/4, \pi/2$, $\theta = \pi/6, \pi/4, \pi/3$, $k \in [0.02, 2]$.

5 Cavity flow (cavity in a channel)

5.1 $Re = 150$

Physical collocation:

– [PoliTO - DIMEAS](#), Computer “dns2”

Address:

130.192.25.86/home/michele/cavita2011/laminar/re_150_prb/

5.2 $Re = 250$

Physical collocation:

– [PoliTO - DIMEAS](#), Computer “dns2”

Address:

130.192.25.86/home/michele/cavita2011/laminar/re_250_prb/

5.3 $Re = 2900$

Physical collocation:

– [PoliTO - DIMEAS](#), Computer “dns2”

Address:

130.192.25.86/home/michele/cavita2011/laminar/turbulent/

Size: 40 Gb

6 Channel flow

Total size: 10 Gb

6.1 $Re_\tau = 180$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$

Physical collocation:

– [PoliTO - DIMEAS](#), CD “Les A - Re180 - uvw $y^+=2$, no comm.”

– [PoliTO - DIMEAS](#), CD “Les A - Re180 - uvw $y^+=5$, no comm.”

6.2 $Re_\tau = 180$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$

Physical collocation:

– [PoliTO - DIMEAS](#), CD “Les B - Re180 - uvw $y^+=2$, no comm.”

– [PoliTO - DIMEAS](#), CD “Les B - Re180 - uvw $y^+=5$, no comm.”

6.3 $Re_\tau = 180$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$, noncommutation correction

Physical collocation:

– [PoliTO - DIMEAS](#), CD “Les A - Re180 - uvw $y^+=2$, comm.”

– [PoliTO - DIMEAS](#), CD “Les A - Re180 - uvw $y^+=5$, comm.”

6.4 $Re_\tau = 180$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$, noncommutation correction

Physical collocation:

– [PoliTO - DIMEAS](#), CD “Les B - Re180 - uvw $y^+=2$, comm.”

– [PoliTO - DIMEAS](#), CD “Les B - Re180 - uvw $y^+=5$, comm.”

6.5 $Re_\tau = 590$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$

Physical collocation:

– [PoliTO - DIMEAS](#), CD “Les A - Re590 - uvw $y^+=2$, no comm.”

– [PoliTO - DIMEAS](#), CD “Les A - Re590 - uvw $y^+=5$, no comm.”

6.6 $Re_\tau = 590$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$

Physical collocation:

- **PoliTO - DIMEAS**, CD “Les B - Re590 - uvw $y^+=2$, no comm.”
- **PoliTO - DIMEAS**, CD “Les B - Re590 - uvw $y^+=5$, no comm.”

6.7 $Re_\tau = 590$, Les b.c.A, $y^+ = 2$ and $y^+ = 5$, noncommutation correction

Physical collocation:

- **PoliTO - DIMEAS**, CD “Les A - Re590 - uvw $y^+=2$, comm.”
- **PoliTO - DIMEAS**, CD “Les A - Re590 - uvw $y^+=5$, comm.”

6.8 $Re_\tau = 590$, Les b.c.B, $y^+ = 2$ and $y^+ = 5$, noncommutation correction

Physical collocation:

- **PoliTO - DIMEAS**, CD “Les B - Re590 - uvw $y^+=2$, comm.”
 - **PoliTO - DIMEAS**, CD “Les B - Re590 - uvw $y^+=5$, comm.”
-

7 Filtered turbulent fields

Total size: 1,3 Tb

7.1 Original data (F.Toschi)

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A1

Address:

130.192.25.60/Disco1/Fabrizio/Toschi/

7.2 Filter class: “cross”

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A1

Address:

130.192.25.60/Disco1/Fabrizio/croce/

7.3 Filter class: “sphere”

Physical collocation:

- **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A1

Address:

130.192.25.60/Disco1/Fabrizio/sfera/

7.4 Filter class: “filament”

Physical collocation:

– **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A1

Address:

130.192.25.60/Disco1/Fabrizio/filamento/

7.5 Filter class: “sheet”

Physical collocation:

– **PoliTO - DIMEAS**, Network disk system Lacie A → usb disk A1

Address:

130.192.25.60/Disco1/Fabrizio/sheet/