

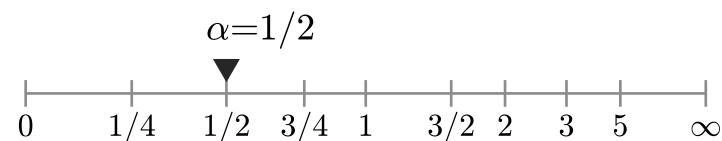
$\Omega_1$ : All other books

$\Omega_2$ : Harry Potter 1

Divergence contribution  $\delta D_{1/2,\tau}^R$  (%)

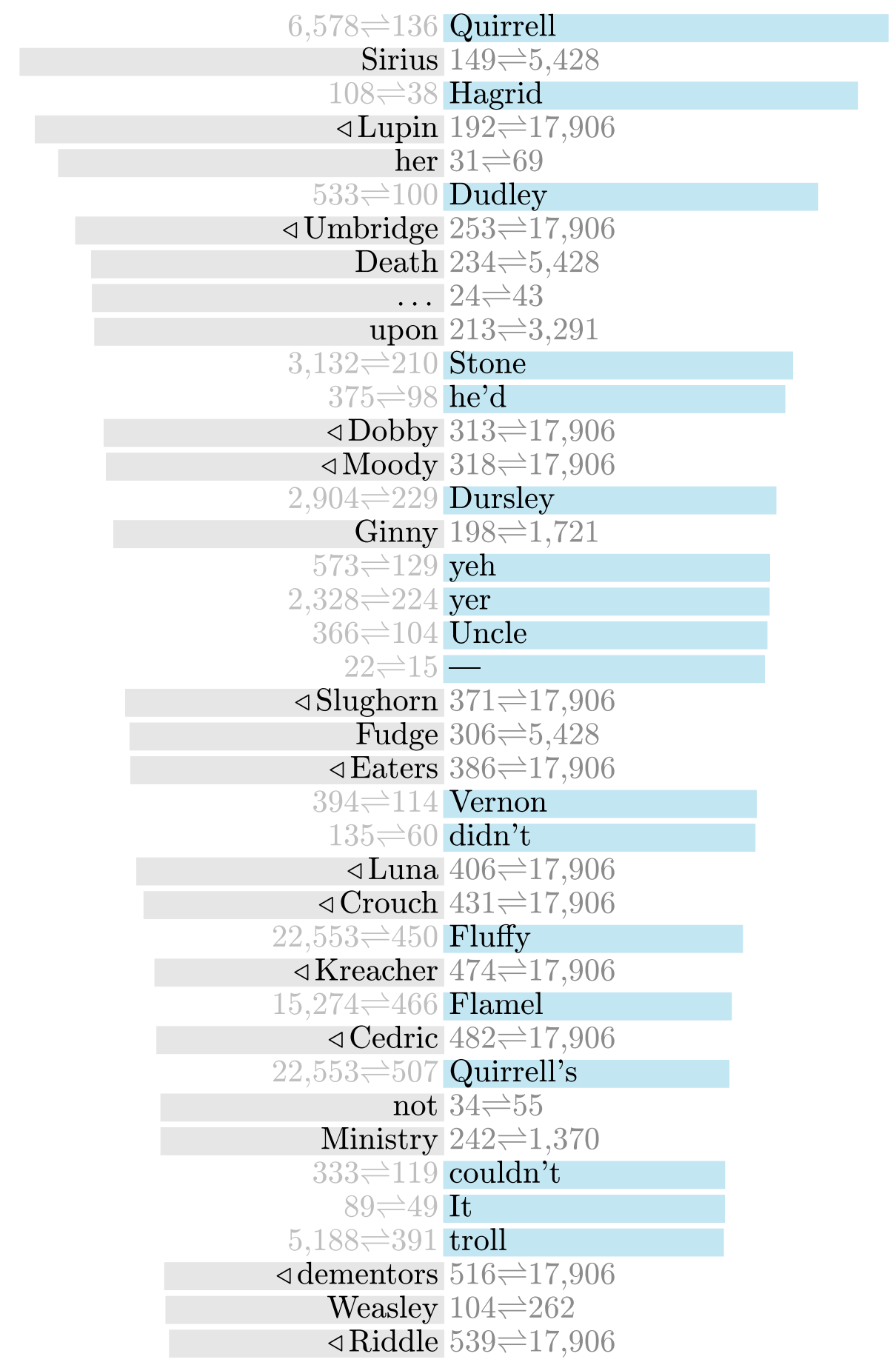
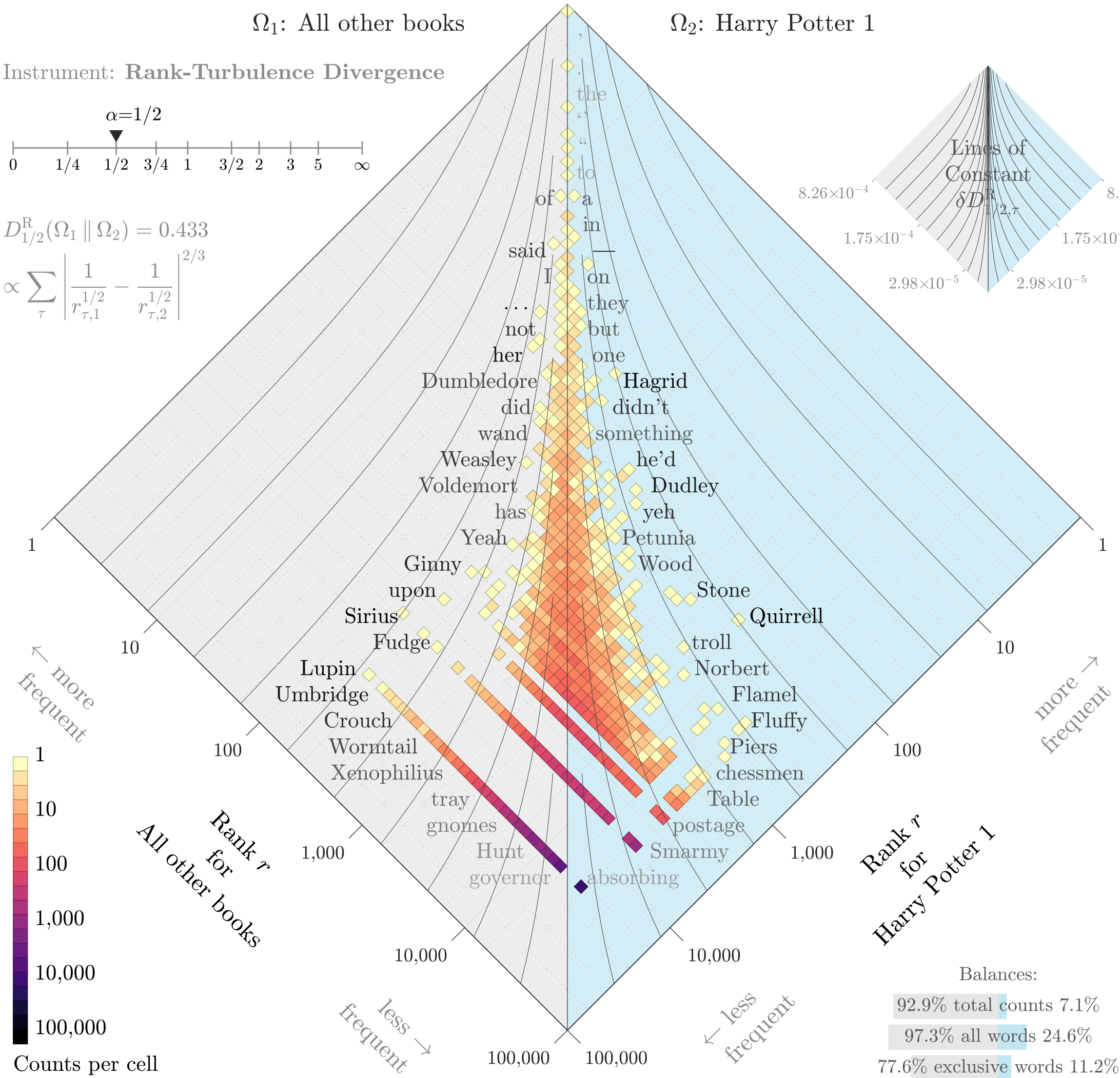
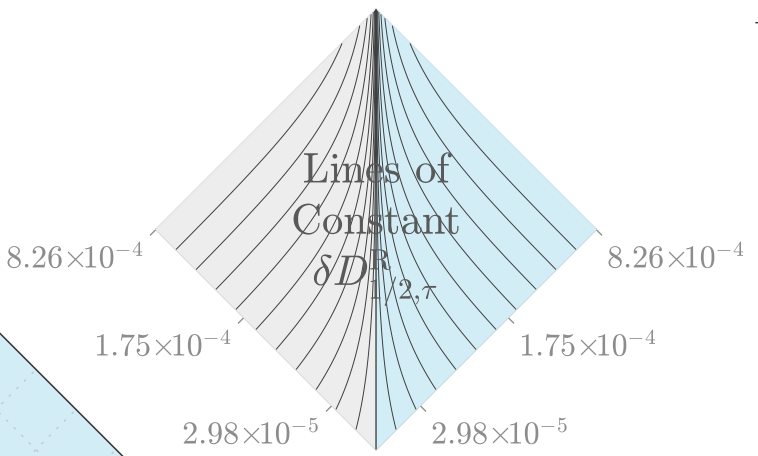
0.03 0.02 0.01 0 0.01 0.02 0.03

Instrument: Rank-Turbulence Divergence



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.433$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/2}} - \frac{1}{r_{\tau,2}^{1/2}} \right|^{2/3}$$



Balances:

92.9% total counts 7.1%

97.3% all words 24.6%

77.6% exclusive words 11.2%

53.3%—46.7%

$\Omega_1$ : All other books

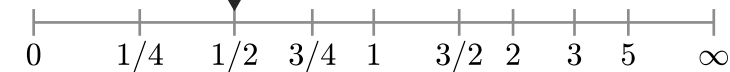
$\Omega_2$ : Harry Potter 2

Divergence contribution  $\delta D_{1/2,\tau}^R$  (%)

0.04 0.03 0.02 0.01 0 0.01 0.02 0.03 0.04

Instrument: Rank-Turbulence Divergence

$\alpha=1/2$



$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.399$

$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/2}} - \frac{1}{r_{\tau,2}^{1/2}} \right|^{2/3}$

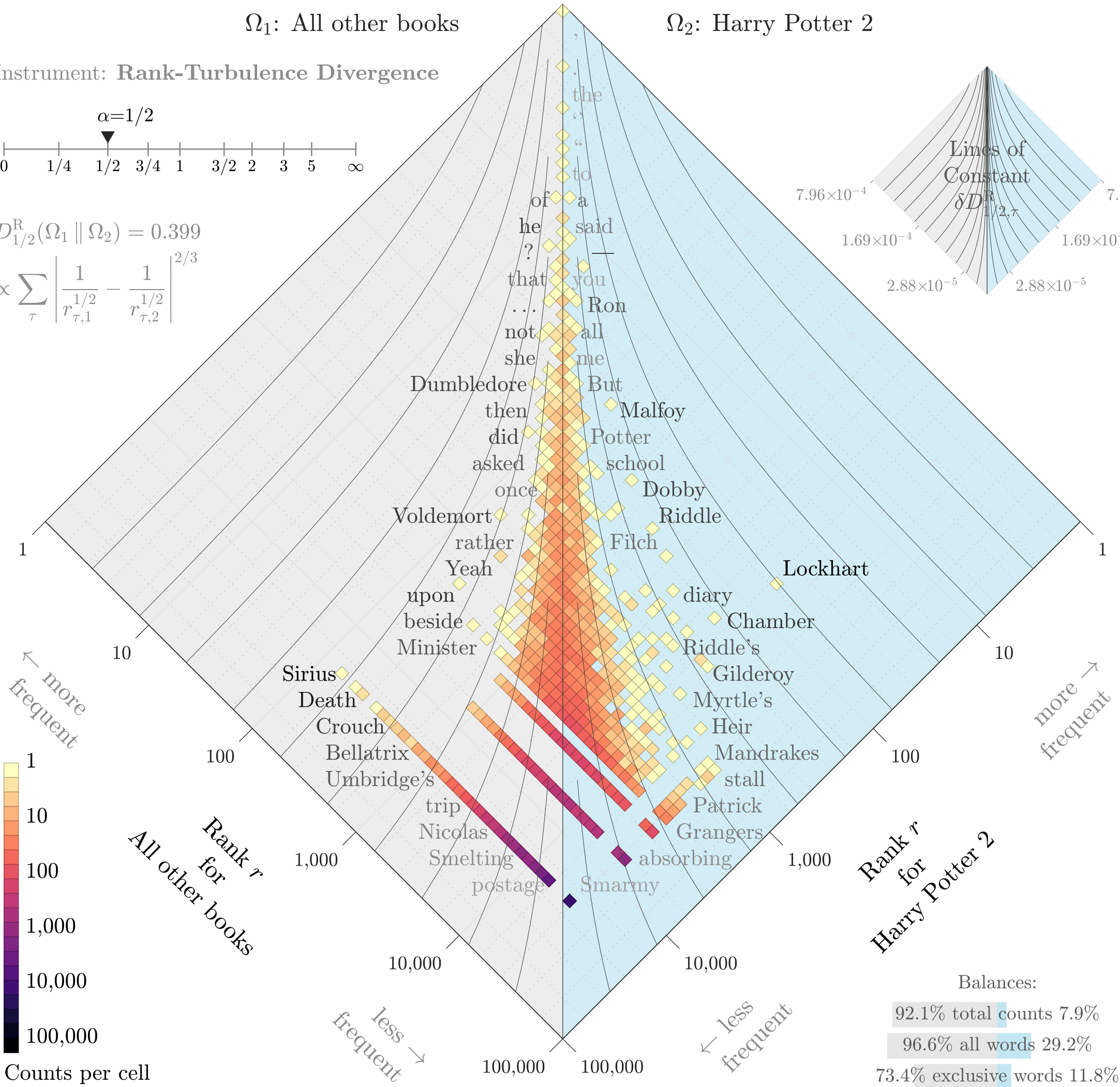
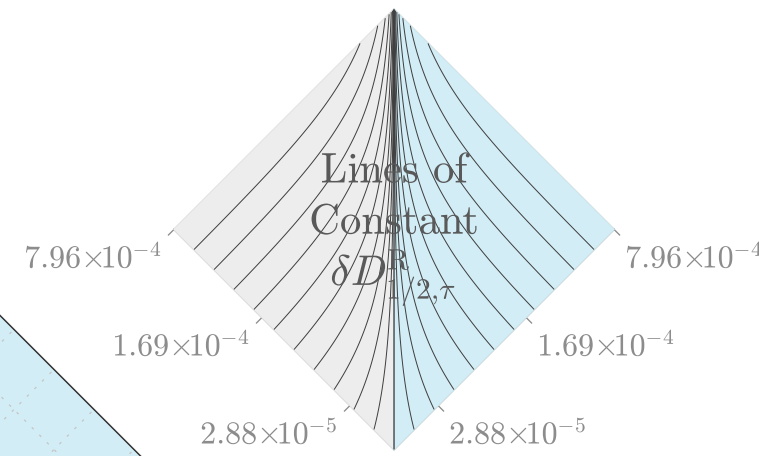


Table of words and their divergence contributions, including names like Lockhart, Sirius, and Chamber.

Balances: 92.1% total counts 7.9%, 96.6% all words 29.2%, 73.4% exclusive words 11.8%

52.2%—47.8%

$\Omega_1$ : All other books

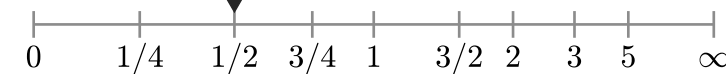
$\Omega_2$ : Harry Potter 3

Divergence contribution  $\delta D_{1/2,\tau}^R$  (%)

0.04 0.03 0.02 0.01 0 0.01 0.02 0.03 0.04

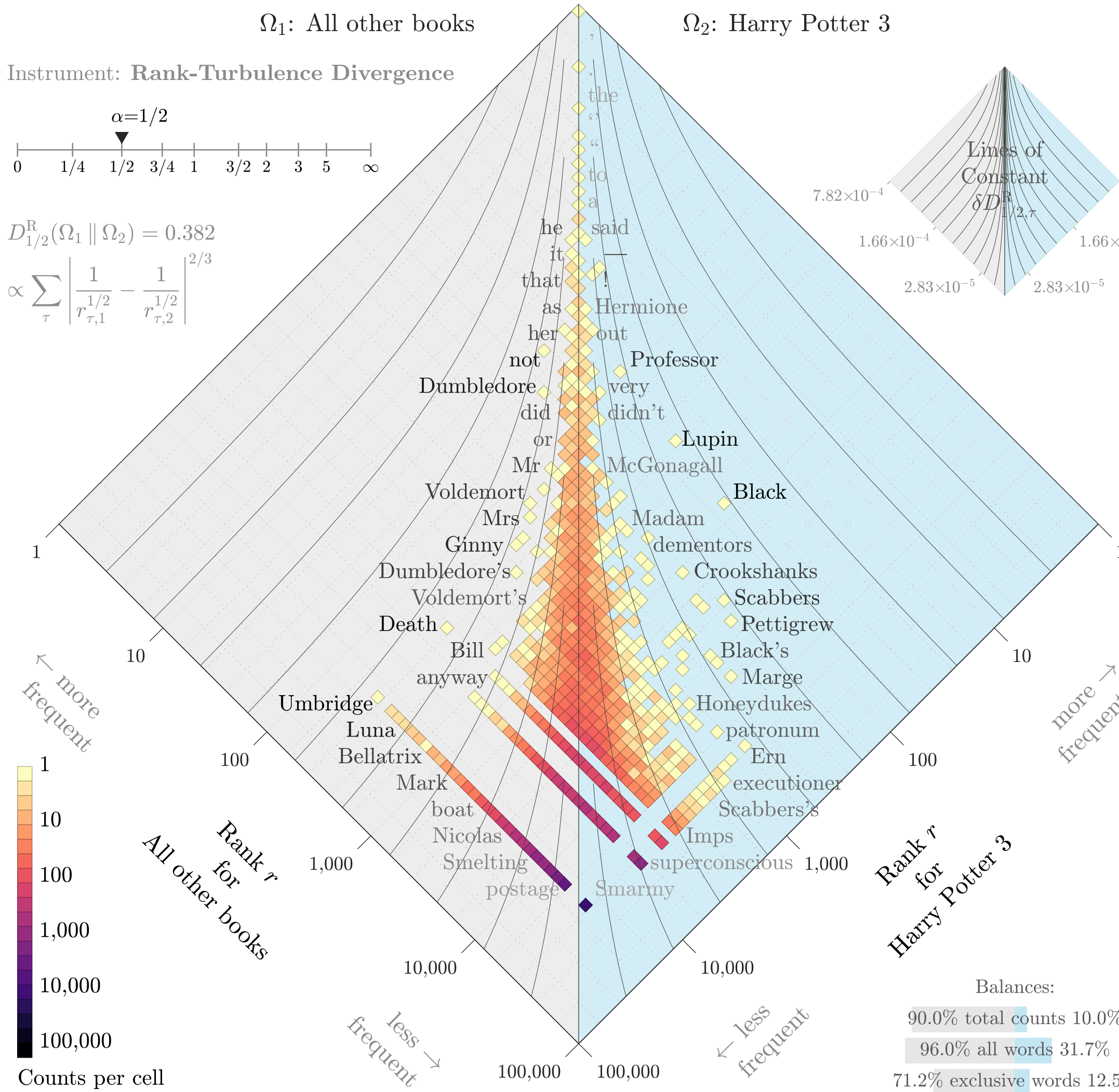
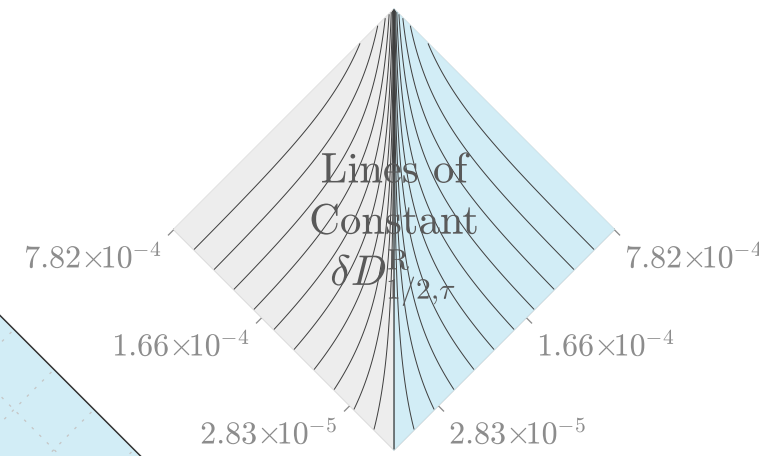
Instrument: Rank-Turbulence Divergence

$\alpha=1/2$



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.382$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/2}} - \frac{1}{r_{\tau,2}^{1/2}} \right|^{2/3}$$



1,300 ⇌ 52	Black
352 ⇌ 44	Lupin
3,904 ⇌ 152	Scabbers
92 ⇌ 36	Professor
5,335 ⇌ 179	Pettigrew
< Umbridge	242 ⇌ 18,925
1,779 ⇌ 170	Crookshanks
Death	228 ⇌ 4,250
< Dobby	304 ⇌ 18,925
2,981 ⇌ 214	Buckbeak
< Moody	306 ⇌ 18,925
2,524 ⇌ 210	Firebolt
9,121 ⇌ 300	Marge
not	34 ⇌ 64
22 ⇌ 15	—
< Slughorn	367 ⇌ 18,925
5,653 ⇌ 300	Black's
< Eaters	376 ⇌ 18,925
Dumbledore	52 ⇌ 109
< Luna	400 ⇌ 18,925
6,912 ⇌ 339	Peter
< Crouch	426 ⇌ 18,925
3,904 ⇌ 327	rat
< Kreacher	466 ⇌ 18,925
748 ⇌ 176	dementors
1,146 ⇌ 221	Wood
Ginny	194 ⇌ 834
2,981 ⇌ 327	Stan
< Riddle	531 ⇌ 18,925
< Krum	540 ⇌ 18,925
25 ⇌ 18	!
< Tonks	543 ⇌ 18,925
2,981 ⇌ 352	dementor
< Bagman	576 ⇌ 18,925
22,267 ⇌ 606	Ern
1,286 ⇌ 263	Hogsmeade
< Lockhart	603 ⇌ 18,925
< Fleur	608 ⇌ 18,925
Mrs	169 ⇌ 511
4,060 ⇌ 429	hippogriff

Balances:  
 90.0% total counts 10.0%  
 96.0% all words 31.7%  
 71.2% exclusive words 12.5%

51.9%—48.1%

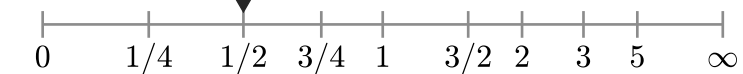
$\Omega_1$ : All other books

$\Omega_2$ : Harry Potter 4

Divergence contribution  $\delta D_{1/2,\tau}^R$  (%)

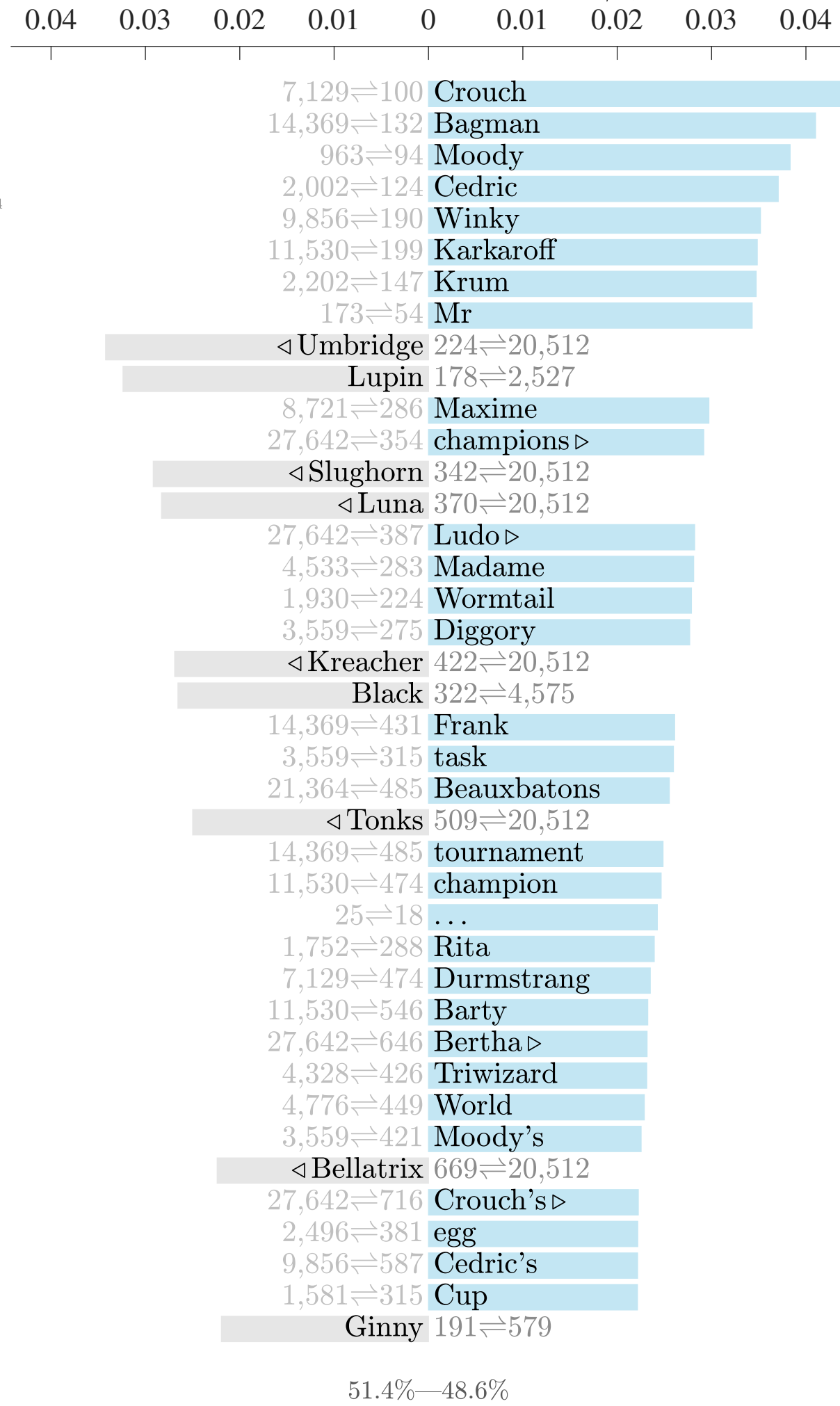
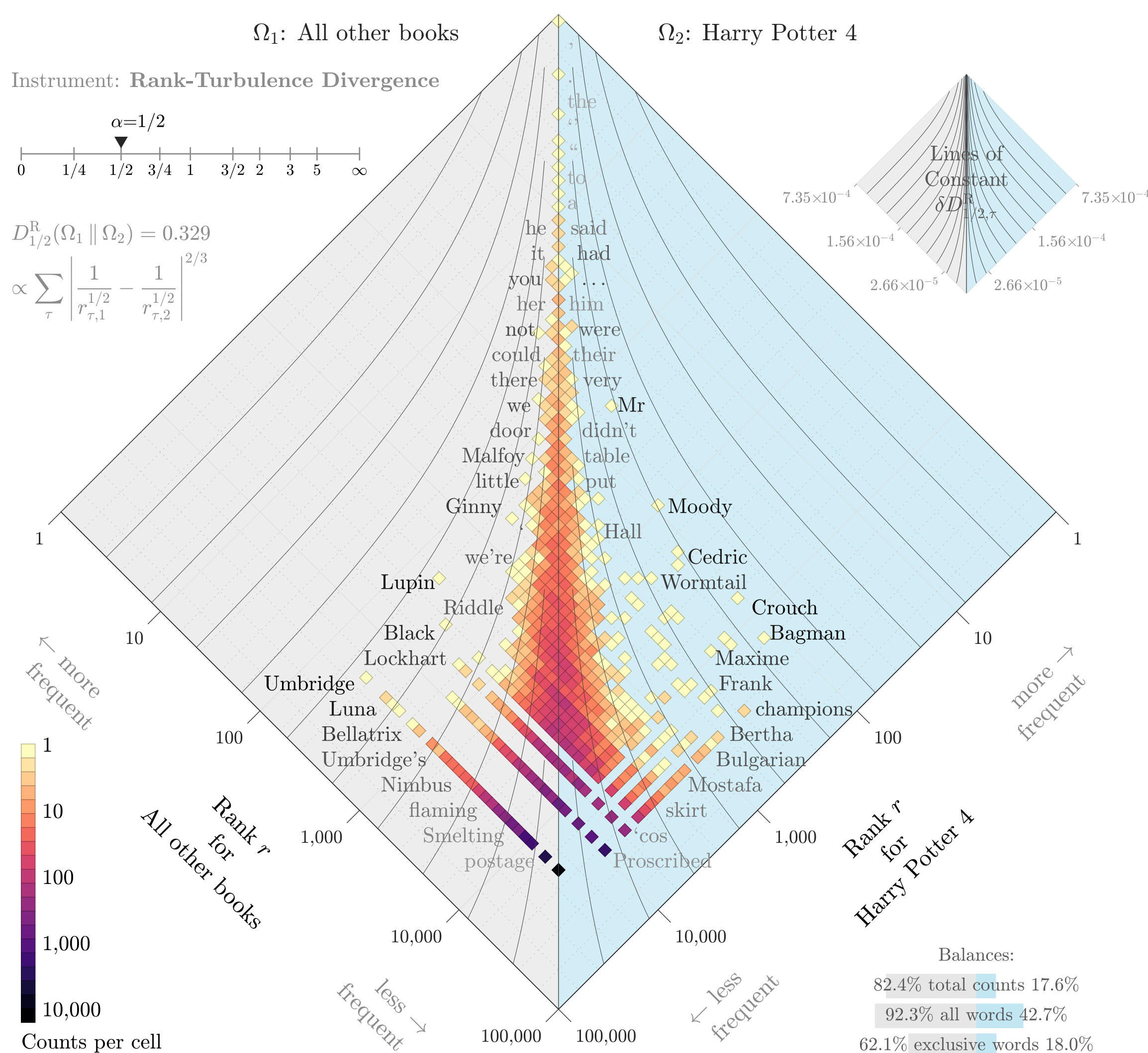
Instrument: Rank-Turbulence Divergence

$\alpha=1/2$



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.329$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/2}} - \frac{1}{r_{\tau,2}^{1/2}} \right|^{2/3}$$



Balances:

82.4% total counts 17.6%

92.3% all words 42.7%

62.1% exclusive words 18.0%

51.4%—48.6%

$\Omega_1$ : All other books

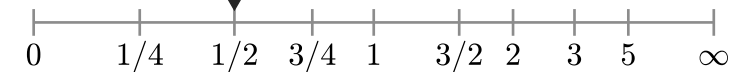
$\Omega_2$ : Harry Potter 5

Divergence contribution  $\delta D_{1/2,\tau}^R$  (%)

0.04 0.03 0.02 0.01 0 0.01 0.02 0.03 0.04

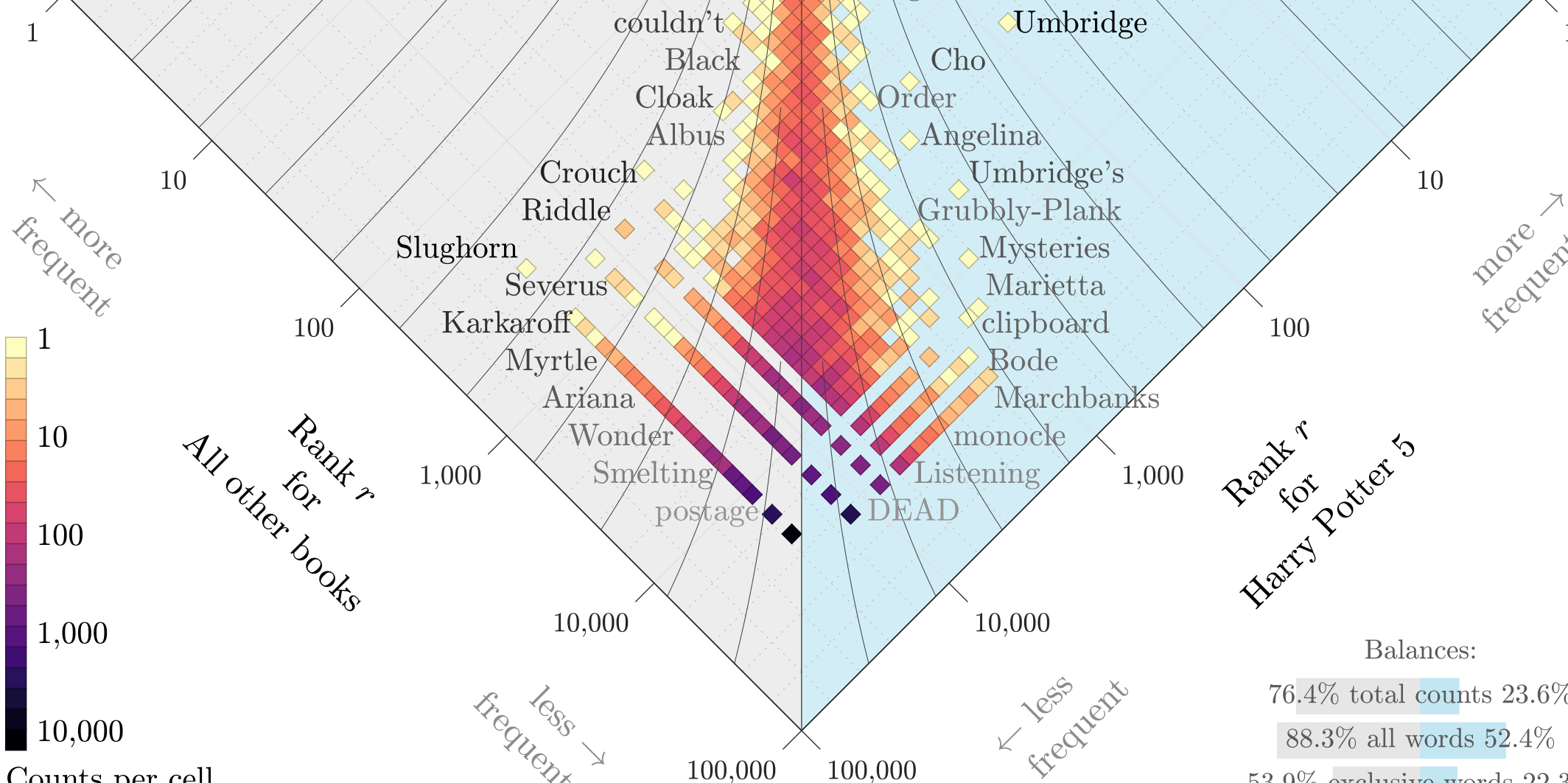
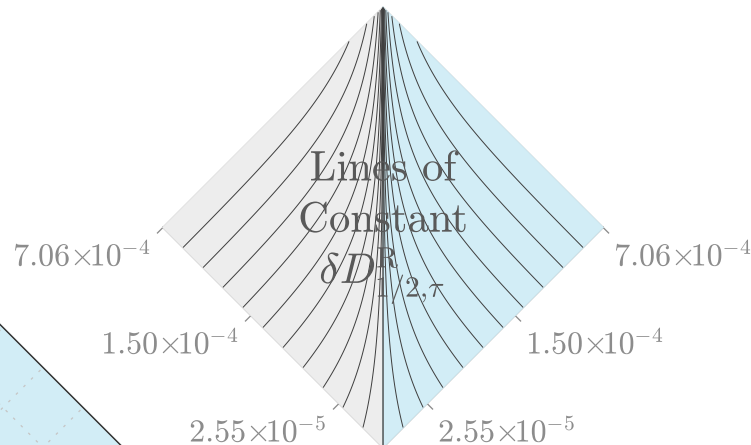
Instrument: Rank-Turbulence Divergence

$\alpha=1/2$



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.322$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/2}} - \frac{1}{r_{\tau,2}^{1/2}} \right|^{2/3}$$



1,887 ⇌ 85	Umbridge
264 ⇌ 62	Sirius
319 ⇌ 21,902	Slughorn
14 ⇌ 10	said
1,551 ⇌ 255	Cho
377 ⇌ 3,993	Crouch
466 ⇌ 7,497	Riddle
478 ⇌ 7,497	Krum
532 ⇌ 11,852	Fleur
4,766 ⇌ 428	Umbridge's
511 ⇌ 7,497	Bagman
730 ⇌ 21,902	Karkaroff
742 ⇌ 21,902	Horcrux
783 ⇌ 21,902	Griphook
703 ⇌ 11,852	Severus
34 ⇌ 25	her
735 ⇌ 11,852	tent
742 ⇌ 11,852	Scrimgeour
2,218 ⇌ 428	Angelina
9,374 ⇌ 719	Mysteries
908 ⇌ 21,902	Ollivander
543 ⇌ 3,485	Lockhart
610 ⇌ 4,687	sword
615 ⇌ 4,687	Wood
238 ⇌ 642	couldn't
851 ⇌ 11,852	Scabbers
1,000 ⇌ 21,902	Pettigrew
73 ⇌ 116	It
110 ⇌ 196	didn't
13,729 ⇌ 947	Marietta
1,090 ⇌ 21,902	Horcruxes
1,090 ⇌ 21,902	Greyback
1,105 ⇌ 21,902	Myrtle
949 ⇌ 11,852	locket
6,195 ⇌ 782	Figg
13,729 ⇌ 1,009	clipboard
710 ⇌ 4,687	Winky
1,153 ⇌ 21,902	Xenophilius
865 ⇌ 7,497	Tom
48 ⇌ 36	she

Balances:  
 76.4% total counts 23.6%  
 88.3% all words 52.4%  
 53.9% exclusive words 22.3%

53.0%—47.0%

$\Omega_1$ : All other books

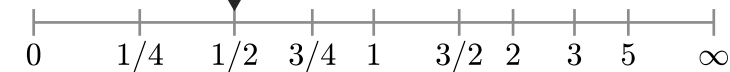
$\Omega_2$ : Harry Potter 6

Divergence contribution  $\delta D_{1/2,\tau}^R$  (%)

0.04 0.03 0.02 0.01 0 0.01 0.02 0.03 0.04

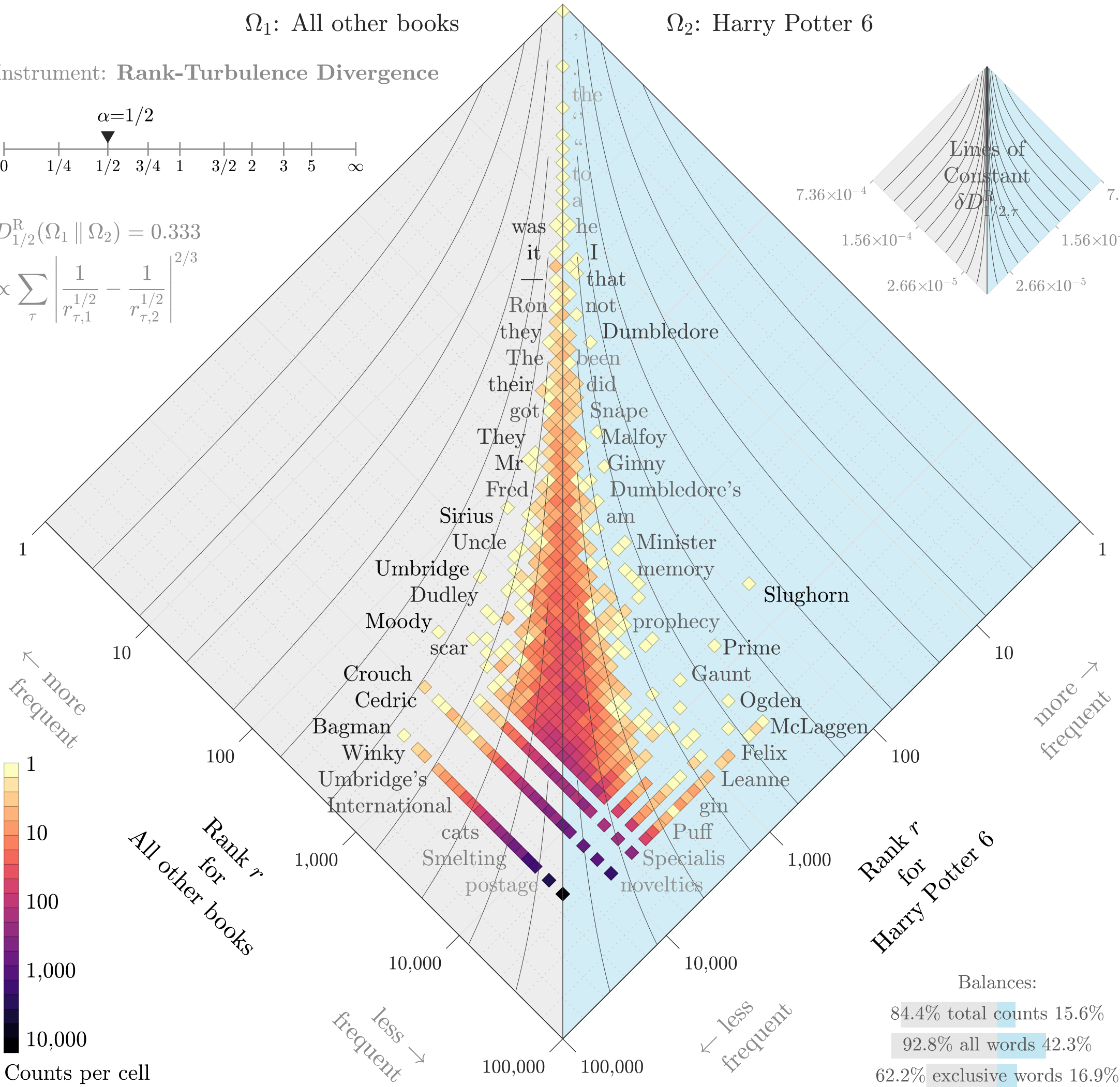
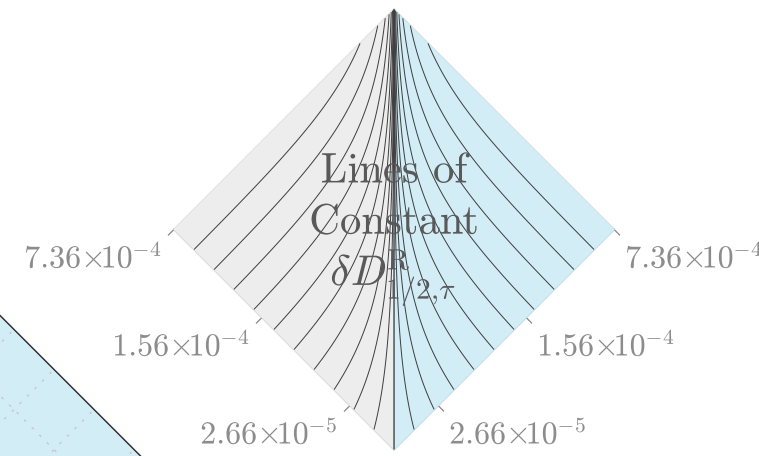
Instrument: Rank-Turbulence Divergence

$\alpha=1/2$



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.333$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/2}} - \frac{1}{r_{\tau,2}^{1/2}} \right|^{2/3}$$



5,393 ⇌ 75	Slughorn
6,617 ⇌ 231	Prime
62 ⇌ 32	Dumbledore
21 ⇌ 14	I
27,720 ⇌ 338	McLaggen ▷
27,720 ⇌ 353	Slughorn's ▷
14,455 ⇌ 347	Ogden
27,720 ⇌ 385	Morfin ▷
27,720 ⇌ 408	Prince ▷
Moody	290 ⇌ 4,319
Sirius	140 ⇌ 535
Umbridge	230 ⇌ 1,510
Crouch	404 ⇌ 9,428
Cedric	449 ⇌ 9,428
22 ⇌ 16	that
21,479 ⇌ 535	Zabini
842 ⇌ 200	Minister
◁ Bagman	552 ⇌ 20,452
6,617 ⇌ 466	Gaunt
27,720 ⇌ 643	Felix ▷
1,574 ⇌ 292	Scrimgeour
1,820 ⇌ 321	Tom
27,720 ⇌ 690	Merope ▷
847 ⇌ 227	Riddle
it	16 ⇌ 21
Lockhart	573 ⇌ 9,428
27,720 ⇌ 714	Half-Blood ▷
1,196 ⇌ 280	memory
159 ⇌ 83	Malfoy
251 ⇌ 115	Ginny
3,284 ⇌ 444	Narcissa
Dudley	359 ⇌ 1,907
27,720 ⇌ 791	Potion-Making ▷
27,720 ⇌ 791	Felicis ▷
9,911 ⇌ 643	necklace
◁ Winky	757 ⇌ 20,452
scar	443 ⇌ 2,967
3,391 ⇌ 466	Borgin
Wood	660 ⇌ 9,428
1,051 ⇌ 286	potion

Balances:  
 84.4% total counts 15.6%  
 92.8% all words 42.3%  
 62.2% exclusive words 16.9%

51.1%—48.9%

$\Omega_1$ : All other books

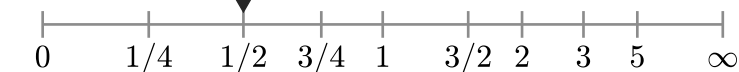
$\Omega_2$ : Harry Potter 7

Divergence contribution  $\delta D_{1/2,\tau}^R$  (%)

0.03 0.02 0.01 0 0.01 0.02 0.03

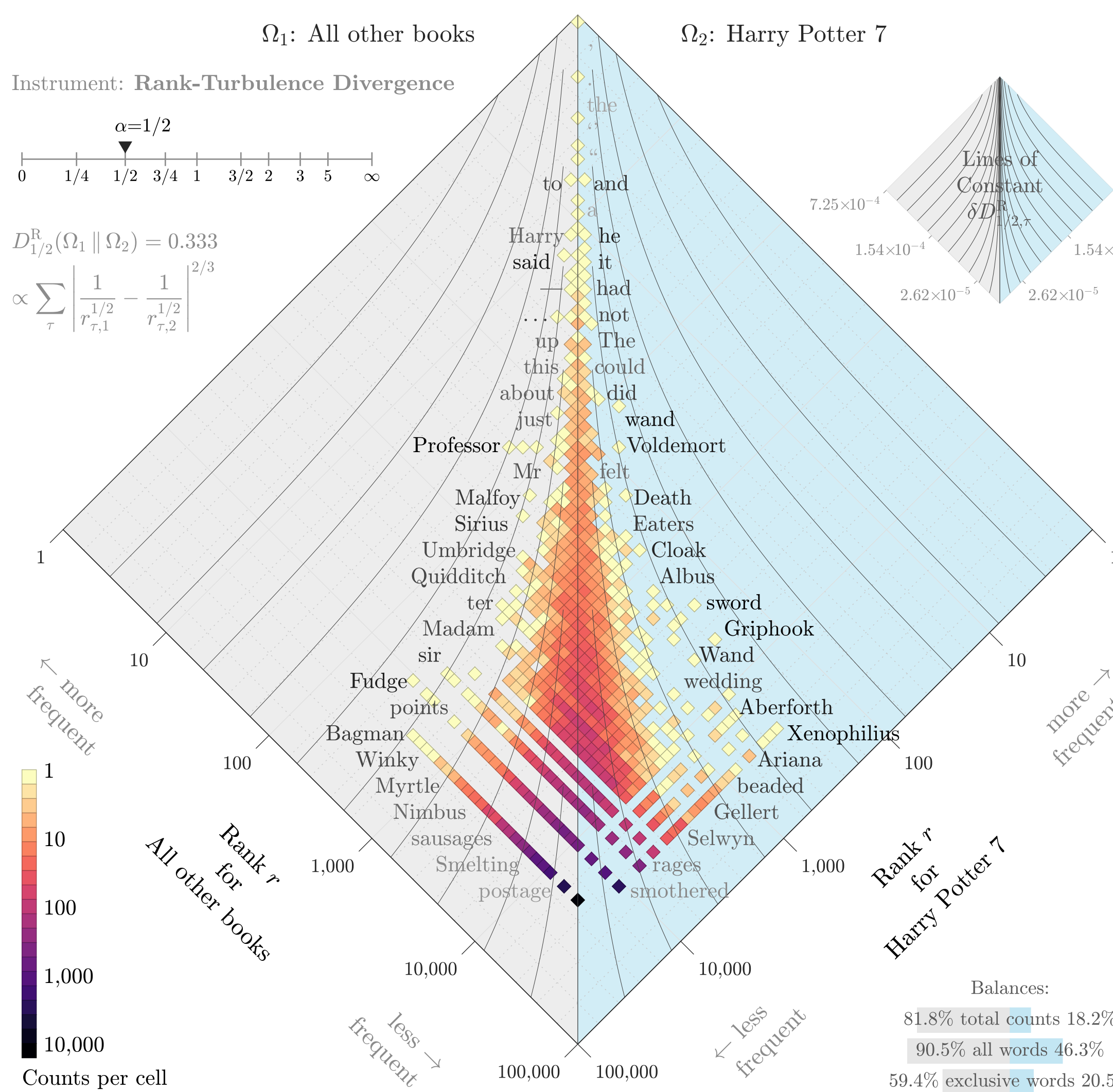
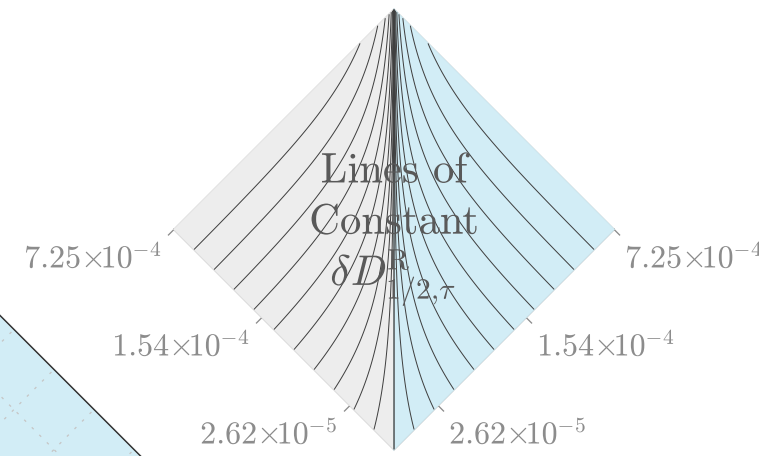
Instrument: Rank-Turbulence Divergence

$\alpha=1/2$



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.333$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/2}} - \frac{1}{r_{\tau,2}^{1/2}} \right|^{2/3}$$



Professor	63	290
sword	2,711	187
said	12	18
very	71	225
Griphook	4,986	232
Xenophilius	27,383	311
Fudge	278	10,312
wand	126	54
Hallows	27,383	379
Aberforth	11,341	379
Sirius	138	535
Elder	27,383	446
class	383	10,312
Crouch	400	10,312
sir	366	6,314
Voldemort	199	82
goblin	2,576	287
he	13	10
Bathilda	14,111	456
Malfoy	121	354
Cloak	800	191
Grindelwald	14,111	484
Horcrux	1,980	283
Yaxley	20,945	522
locket	2,924	327
Bagman	534	21,024
Wand	4,716	386
Death	367	129
Lockhart	548	21,024
Godric's	11,341	504
Hollow	11,341	504
Cedric	439	6,314
...	24	35
Hagrid	85	185
Ariana	27,383	608
Cattermole	27,383	622
diadem	27,383	622
Doge	14,111	559
Albus	1,386	274
Greyback	3,189	386

Balances:  
 81.8% total counts 18.2%  
 90.5% all words 46.3%  
 59.4% exclusive words 20.5%

52.5%—47.5%