





























Meridial Flow  
Transport

Turbulent pumping



Different for different size stars

700 is typical for the Sun

















Current state of the sun

  


Alternative Mode of Transport

Not Sun Like

Not Sun Like











Table 2  
The Babcock-Leighton dynamo solutions

File Name	Model type	$C_\alpha$	$C_\Omega$	$R_M$	$R_T$	$r_c$	$r_b$
BL-050-010-000-000-700-675.i3e	B-L	10	$5 \times 10^4$	0	0	0.7	0.675
BL-050-010-010-000-700-675.i3e	B-L	10	$5 \times 10^4$	10	0	0.7	0.675
BL-050-010-100-000-700-675.i3e	B-L	10	$5 \times 10^4$	100	0	0.7	0.675
BL-050-010-200-000-700-675.i3e	B-L	10	$5 \times 10^4$	200	0	0.7	0.675
BL-050-010-300-000-700-675.i3e	B-L	10	$5 \times 10^4$	300	0	0.7	0.675
BL-050-010-500-000-700-675.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.675
BL-050-010-800-000-700-675.i3e	B-L	10	$5 \times 10^4$	800	0	0.7	0.675
BL-050-010-500-000-700-600.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.6
BL-050-010-500-000-700-650.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.65
BL-050-010-500-000-700-700.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.7
BL-050-010-500-000-700-725.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.725
BL-050-010-500-000-700-750.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.75
BL-050-010-500-000-700-800.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.8
BL-050-010-500-000-700-900.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.9
BL-100-005-500-000-700-700.i3e	B-L	5	$10^5$	500	0	0.7	0.7
BL-100-010-500-000-700-800.i3e	B-L	10	$10^5$	500	0	0.7	0.8
BL-050-020-500-000-700-900.i3e	B-L	20	$5 \times 10^4$	500	0	0.7	0.9
BL-050-010-500-000-700-850.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.85
BL-050-010-500-005-700-850.i3e	B-L	10	$5 \times 10^4$	500	5	0.7	0.85
BL-050-010-500-010-700-850.i3e	B-L	10	$5 \times 10^4$	500	10	0.7	0.85
BL-050-010-500-020-700-850.i3e	B-L	10	$5 \times 10^4$	500	20	0.7	0.85
BL-050-010-500-030-700-850.i3e	B-L	10	$5 \times 10^4$	500	30	0.7	0.85
BL-050-010-500-040-700-850.i3e	B-L	10	$5 \times 10^4$	500	40	0.7	0.85
BL-050-010-500-050-700-850.i3e	B-L	10	$5 \times 10^4$	500	50	0.7	0.85
BL-050-010-100-020-700-850.i3e	B-L	10	$5 \times 10^4$	100	20	0.7	0.85
BL-050-010-200-020-700-850.i3e	B-L	10	$5 \times 10^4$	200	20	0.7	0.85
BL-050-010-800-020-700-850.i3e	B-L	10	$5 \times 10^4$	800	20	0.7	0.85
BL-050-010-500-020-700-850.i3e	B-L	10	$5 \times 10^4$	500	20	0.7	0.85
BL-050-010-000-005-700-850.i3e	B-L	10	$5 \times 10^4$	000	5	0.7	0.85
BL-050-010-000-010-700-850.i3e	B-L	10	$5 \times 10^4$	000	10	0.7	0.85
BL-050-010-000-020-700-850.i3e	B-L	10	$5 \times 10^4$	000	20	0.7	0.85
BL-050-010-500-000-600-600.i3e	B-L	10	$5 \times 10^4$	500	0	0.6	0.6
BL-050-010-500-000-650-650.i3e	B-L	10	$5 \times 10^4$	500	0	0.65	0.65
BL-050-010-500-000-700-700.i3e	B-L	10	$5 \times 10^4$	500	0	0.7	0.7
BL-050-010-500-000-750-750.i3e	B-L	10	$5 \times 10^4$	500	0	0.75	0.75
BL-050-010-500-000-800-800.i3e	B-L	10	$5 \times 10^4$	500	0	0.8	0.8
BL-050-010-500-000-850-850.i3e	B-L	10	$5 \times 10^4$	500	0	0.85	0.85