

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_α	C_Ω	R_M	R_T	r_c	r_b
BL-050-010-000-000-700-675.i3e	B-L	10	5×10^4	0	0	0.7	0.675
BL-050-010-010-000-700-675.i3e	B-L	10	5×10^4	10	0	0.7	0.675
BL-050-010-100-000-700-675.i3e	B-L	10	5×10^4	100	0	0.7	0.675
BL-050-010-200-000-700-675.i3e	B-L	10	5×10^4	200	0	0.7	0.675
BL-050-010-300-000-700-675.i3e	B-L	10	5×10^4	300	0	0.7	0.675
BL-050-010-500-000-700-675.i3e	B-L	10	5×10^4	500	0	0.7	0.675
BL-050-010-800-000-700-675.i3e	B-L	10	5×10^4	800	0	0.7	0.675
BL-050-010-500-000-700-600.i3e	B-L	10	5×10^4	500	0	0.7	0.6
BL-050-010-500-000-700-650.i3e	B-L	10	5×10^4	500	0	0.7	0.65
BL-050-010-500-000-700-700.i3e	B-L	10	5×10^4	500	0	0.7	0.7
BL-050-010-500-000-700-725.i3e	B-L	10	5×10^4	500	0	0.7	0.725
BL-050-010-500-000-700-750.i3e	B-L	10	5×10^4	500	0	0.7	0.75
BL-050-010-500-000-700-800.i3e	B-L	10	5×10^4	500	0	0.7	0.8
BL-050-010-500-000-700-900.i3e	B-L	10	5×10^4	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	5×10^4	500	0	0.7	0.9
BL-050-010-500-000-700-850.i3e	B-L	10	5×10^4	500	0	0.7	0.85
BL-050-010-500-005-700-850.i3e	B-L	10	5×10^4	500	5	0.7	0.85
BL-050-010-500-010-700-850.i3e	B-L	10	5×10^4	500	10	0.7	0.85
BL-050-010-500-020-700-850.i3e	B-L	10	5×10^4	500	20	0.7	0.85
BL-050-010-500-030-700-850.i3e	B-L	10	5×10^4	500	30	0.7	0.85
BL-050-010-500-040-700-850.i3e	B-L	10	5×10^4	500	40	0.7	0.85
BL-050-010-500-050-700-850.i3e	B-L	10	5×10^4	500	50	0.7	0.85
BL-050-010-100-020-700-850.i3e	B-L	10	5×10^4	100	20	0.7	0.85
BL-050-010-200-020-700-850.i3e	B-L	10	5×10^4	200	20	0.7	0.85
BL-050-010-800-020-700-850.i3e	B-L	10	5×10^4	800	20	0.7	0.85
BL-050-010-500-020-700-850.i3e	B-L	10	5×10^4	500	20	0.7	0.85
BL-050-010-000-005-700-850.i3e	B-L	10	5×10^4	000	5	0.7	0.85
BL-050-010-000-010-700-850.i3e	B-L	10	5×10^4	000	10	0.7	0.85
BL-050-010-000-020-700-850.i3e	B-L	10	5×10^4	000	20	0.7	0.85
BL-050-010-500-000-600-600.i3e	B-L	10	5×10^4	500	0	0.6	0.6
BL-050-010-500-000-650-650.i3e	B-L	10	5×10^4	500	0	0.65	0.65
BL-050-010-500-000-700-700.i3e	B-L	10	5×10^4	500	0	0.7	0.7
BL-050-010-500-000-750-750.i3e	B-L	10	5×10^4	500	0	0.75	0.75
BL-050-010-500-000-800-800.i3e	B-L	10	5×10^4	500	0	0.8	0.8
BL-050-010-500-000-850-850.i3e	B-L	10	5×10^4	500	0	0.85	0.85