

ARK4(3)6L[2]SA–ERK

0	0	0	0	0	0	0
$\frac{1}{2}$	$\frac{1}{2}$	0	0	0	0	0
$\frac{83}{250}$	$\frac{13861}{62500}$	$\frac{6889}{62500}$	0	0	0	0
$\frac{31}{50}$	$\frac{-116923316275}{2393684061468}$	$\frac{-2731218467317}{15368042101831}$	$\frac{9408046702089}{11113171139209}$	0	0	0
$\frac{17}{20}$	$\frac{-451086348788}{2902428689909}$	$\frac{-2682348792572}{7519795681897}$	$\frac{12662868775082}{11960479115383}$	$\frac{3355817975965}{11060851509271}$	0	0
1	$\frac{647845179188}{3216320057751}$	$\frac{73281519250}{8382639484533}$	$\frac{552539513391}{3454668386233}$	$\frac{3354512671639}{8306763924573}$	$\frac{4040}{17871}$	0
b_i	$\frac{82889}{524892}$	0	$\frac{15625}{83664}$	$\frac{69875}{102672}$	$\frac{-2260}{8211}$	$\frac{1}{4}$
\hat{b}_i	$\frac{4586570599}{29645900160}$	0	$\frac{178811875}{945068544}$	$\frac{814220225}{1159782912}$	$\frac{-3700637}{11593932}$	$\frac{61727}{225920}$

ARK4(3)6L[2]SA–ESDIRK

0	0	0	0	0	0	0
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	0	0	0	0
$\frac{83}{250}$	$\frac{8611}{62500}$	$\frac{-1743}{31250}$	$\frac{1}{4}$	0	0	0
$\frac{31}{50}$	$\frac{5012029}{34652500}$	$\frac{-654441}{2922500}$	$\frac{174375}{388108}$	$\frac{1}{4}$	0	0
$\frac{17}{20}$	$\frac{15267082809}{155376265600}$	$\frac{-71443401}{120774400}$	$\frac{730878875}{902184768}$	$\frac{2285395}{8070912}$	$\frac{1}{4}$	0
1	$\frac{82889}{524892}$	0	$\frac{15625}{83664}$	$\frac{69875}{102672}$	$\frac{-2260}{8211}$	$\frac{1}{4}$
b_i	$\frac{82889}{524892}$	0	$\frac{15625}{83664}$	$\frac{69875}{102672}$	$\frac{-2260}{8211}$	$\frac{1}{4}$
\hat{b}_i	$\frac{4586570599}{29645900160}$	0	$\frac{178811875}{945068544}$	$\frac{814220225}{1159782912}$	$\frac{-3700637}{11593932}$	$\frac{61727}{225920}$

ARK4(3)6L[2]SA–second-order dense output

b_{ij}^*	$i = 1$	$i = 2$	$i = 3$	$i = 4$	$i = 5$	$i = 6$
$j = 1$	$\frac{5701579834848}{6164663940925}$	0	$\frac{13131138058924}{17779730471019}$	$\frac{-28096677048929}{11161768239540}$	$\frac{42062433452849}{11720557422164}$	$\frac{-25841894007917}{14894670528776}$
$j = 2$	$\frac{-7364557999481}{9602213853517}$	0	$\frac{-6355522249597}{11518083130066}$	$\frac{29755736407445}{9305094404071}$	$\frac{-38886896333129}{10063858340160}$	$\frac{22142945955077}{11155272088250}$