Table 1. Additional AASTEX symbols

$\lesssim$	`\lesssim`, `\la`	$\gtrsim$	`\gtrsim`, `\ga`
μm	`\micron`	—	`\sbond`
=	`\dbond`	≡	`\tbond`
⊙	`\sun`	⊕	`\earth`
⌀	`\diameter`		
°	`\arcdeg`, `\degr`	□	`\sq`
′	`\arcmin`	″	`\arcsec`
$\overset{\mathrm{d}}{\cdot}$	`\fd`	$\overset{\mathrm{h}}{\cdot}$	`\fh`
$\overset{\mathrm{m}}{\cdot}$	`\fm`	$\overset{\mathrm{s}}{\cdot}$	`\fs`
$\overset{\circ}{\cdot}$	`\fdg`	$\overset{\prime}{\cdot}$	`\farcm`
$\overset{\prime\prime}{\cdot}$	`\farcs`	$\overset{\mathrm{p}}{\cdot}$	`\fp`
$\frac{1}{2}$	`\onehalf`	*UBVR*	`\ubvr`
$\frac{1}{3}$	`\onethird`	$U-B$	`\ub`
$\frac{2}{3}$	`\twothirds`	$B-V$	`\bv`
$\frac{1}{4}$	`\onequarter`	$V-R$	`\vr`
$\frac{3}{4}$	`\threequarters`	$U-R$	`\ur`

Table 2. Text-mode accents

		ò	`\‘{o}`	ō	`\={o}`	o͡o	`\t{oo}`
		ó	`\’{o}`	ȯ	`\.{o}`	o̧	`\c{o}`
@	c	ô	`\^{o}`	ŏ	`\u{o}`	ọ	`\d{o}`
		ö	`\"{o}`	ǒ	`\v{o}`	o̲	`\b{o}`
		õ	`\~{o}`	ő	`\H{o}`		

Table 3. National symbols

		œ	`\oe`	å	`\aa`	ł	`\l`
@	c	Œ	`\OE`	Å	`\AA`	Ł	`\L`
		æ	`\ae`	ø	`\o`	ß	`\ss`
		Æ	`\AE`	Ø	`\O`		

Table 4. Math-mode accents

$\hat{a}$	`\hat{a}`	$\dot{a}$	`\dot{a}`
$\check{a}$	`\check{a}`	$\ddot{a}$	`\ddot{a}`
$\tilde{a}$	`\tilde{a}`	$\breve{a}$	`\breve{a}`
$\acute{a}$	`\acute{a}`	$\bar{a}$	`\bar{a}`
$\grave{a}$	`\grave{a}`	$\vec{a}$	`\vec{a}`

Table 5. Greek and Hebrew letters (math mode)

α	`\alpha`	ν	`\nu`
β	`\beta`	ξ	`\xi`
γ	`\gamma`	o	`o`
δ	`\delta`	π	`\pi`
ϵ	`\epsilon`	ρ	`\rho`
ζ	`\zeta`	σ	`\sigma`
η	`\eta`	τ	`\tau`
θ	`\theta`	υ	`\upsilon`
ι	`\iota`	ϕ	`\phi`
κ	`\kappa`	χ	`\chi`
λ	`\lambda`	ψ	`\psi`
μ	`\mu`	ω	`\omega`
$\digamma$	`\digamma`	$\varkappa$	`\varkappa`
ε	`\varepsilon`	ς	`\varsigma`
ϑ	`\vartheta`	φ	`\varphi`
ϱ	`\varrho`		
Γ	`\Gamma`	Σ	`\Sigma`
Δ	`\Delta`	Υ	`\Upsilon`
Θ	`\Theta`	Φ	`\Phi`
Λ	`\Lambda`	Ψ	`\Psi`
Ξ	`\Xi`	Ω	`\Omega`
Π	`\Pi`		
$\aleph$	`\aleph`	$\beth$	`\beth`
$\gimel$	`\gimel`	$\daleth$	`\daleth`

Table 6. Binary operators (math mode)

$\pm$	\pm	$\cap$	\cap
$\mp$	\mp	$\cup$	\cup
$\setminus$	\setminus	$\uplus$	\uplus
$\cdot$	\cdot	$\sqcap$	\sqcap
$\times$	\times	$\sqcup$	\sqcup
$*$	\ast	$\triangleleft$	\triangleleft
$\star$	\star	$\triangleright$	\triangleright
$\diamond$	\diamond	$\wr$	\wr
$\circ$	\circ	$\bigcirc$	\bigcirc
$\bullet$	\bullet	$\bigtriangleup$	\bigtriangleup
$\div$	\div	$\bigtriangledown$	\bigtriangledown
$\lhd$	\lhd	$\rhd$	\rhd
$\vee$	\vee	$\odot$	\odot
$\wedge$	\wedge	$\dagger$	\dagger
$\oplus$	\oplus	$\ddagger$	\ddagger
$\ominus$	\ominus	$\amalg$	\amalg
$\otimes$	\otimes	$\unlhd$	\unlhd
$\oslash$	\oslash	$\unrhd$	\unrhd

Table 7. AMS binary operators (math mode)

$\dotplus$	`\dotplus`	$\ltimes$	`\ltimes`
$\smallsetminus$	`\smallsetminus`	$\rtimes$	`\rtimes`
$\Cap$	`\Cap`, `\doublecap`	$\leftthreetimes$	`\leftthreetimes`
$\Cup$	`\Cup`, `\doublecup`	$\rightthreetimes$	`\rightthreetimes`
$\barwedge$	`\barwedge`	$\curlywedge$	`\curlywedge`
$\veebar$	`\veebar`	$\curlyvee$	`\curlyvee`
$\doublebarwedge$	`\doublebarwedge`		
$\boxminus$	`\boxminus`	$\circleddash$	`\circleddash`
$\boxtimes$	`\boxtimes`	$\circledast$	`\circledast`
$\boxdot$	`\boxdot`	$\circledcirc$	`\circledcirc`
$\boxplus$	`\boxplus`	$\centerdot$	`\centerdot`
$\divideontimes$	`\divideontimes`	$\intercal$	`\intercal`

Table 8. Miscellaneous symbols

†	`\dag`	§	`\S`
©	`\copyright`	‡	`\ddag`
¶	`\P`	£	`\pounds`
#	`\#`	$	`\$`
%	`\%`	&	`\&`
_	`\_`	{	`\{`
}	`\}`		

Table 9. Miscellaneous symbols (math mode)

$\aleph$	\aleph	$\prime$	\prime
$\hbar$	\hbar	$\emptyset$	\emptyset
$\imath$	\imath	∇	\nabla
$\jmath$	\jmath	$\surd$	\surd
ℓ	\ell	$\top$	\top
$\wp$	\wp	$\bot$	\bot
$\Re$	\Re	$\|$	|
$\Im$	\Im	$\angle$	\angle
∂	\partial	$\triangle$	\triangle
∞	\infty	$\backslash$	\backslash
$\Box$	\Box	$\Diamond$	\Diamond
$\forall$	\forall	$\sharp$	\sharp
$\exists$	\exists	$\clubsuit$	\clubsuit
$\neg$	\neg	$\diamondsuit$	\diamondsuit
$\flat$	\flat	$\heartsuit$	\heartsuit
$\natural$	\natural	$\spadesuit$	\spadesuit
$\mho$	\mho		

Table 10. AMS miscellaneous symbols (math mode)

$\hbar$	\hbar	$\backprime$	\backprime
$\hbar$	\hslash	$\varnothing$	\varnothing
$\vartriangle$	\vartriangle	$\blacktriangle$	\blacktriangle
$\triangledown$	\triangledown	$\blacktriangledown$	\blacktriangledown
$\square$	\square	$\blacksquare$	\blacksquare
$\lozenge$	\lozenge	$\blacklozenge$	\blacklozenge
$\circledS$	\circledS	$\bigstar$	\bigstar
$\angle$	\angle	$\sphericalangle$	\sphericalangle
$\measuredangle$	\measuredangle		
$\nexists$	\nexists	$\complement$	\complement
$\mho$	\mho	$\eth$	\eth
$\Finv$	\Finv	$\diagup$	\diagup
$\Game$	\Game	$\diagdown$	\diagdown
$\Bbbk$	\Bbbk	$\restriction$	\restriction

Table 11. Arrows (math mode)

$\leftarrow$	\leftarrow	$\longleftarrow$	\longleftarrow
$\Leftarrow$	\Leftarrow	$\Longleftarrow$	\Longleftarrow
$\rightarrow$	\rightarrow	$\longrightarrow$	\longrightarrow
$\Rightarrow$	\Rightarrow	$\Longrightarrow$	\Longrightarrow
$\leftrightarrow$	\leftrightarrow	$\longleftrightarrow$	\longleftrightarrow
$\Leftrightarrow$	\Leftrightarrow	$\Longleftrightarrow$	\Longleftrightarrow
$\mapsto$	\mapsto	$\longmapsto$	\longmapsto
$\hookleftarrow$	\hookleftarrow	$\hookrightarrow$	\hookrightarrow
$\leftharpoonup$	\leftharpoonup	$\rightharpoonup$	\rightharpoonup
$\leftharpoondown$	\leftharpoondown	$\rightharpoondown$	\rightharpoondown
$\rightleftharpoons$	\rightleftharpoons	$\leadsto$	\leadsto
$\uparrow$	\uparrow	$\Updownarrow$	\Updownarrow
$\Uparrow$	\Uparrow	$\nearrow$	\nearrow
$\downarrow$	\downarrow	$\searrow$	\searrow
$\Downarrow$	\Downarrow	$\swarrow$	\swarrow
$\updownarrow$	\updownarrow	$\nwarrow$	\nwarrow

Table 12. AMS arrows (math mode)

$\dashleftarrow$	\dashleftarrow	$\dashrightarrow$	\dashrightarrow
$\leftleftarrows$	\leftleftarrows	$\rightrightarrows$	\rightrightarrows
$\leftrightarrows$	\leftrightarrows	$\rightleftarrows$	\rightleftarrows
$\Lleftarrow$	\Lleftarrow	$\Rrightarrow$	\Rrightarrow
$\twoheadleftarrow$	\twoheadleftarrow	$\twoheadrightarrow$	\twoheadrightarrow
$\leftarrowtail$	\leftarrowtail	$\rightarrowtail$	\rightarrowtail
$\looparrowleft$	\looparrowleft	$\looparrowright$	\looparrowright
$\leftrightharpoons$	\leftrightharpoons	$\rightleftharpoons$	\rightleftharpoons
$\curvearrowleft$	\curvearrowleft	$\curvearrowright$	\curvearrowright
$\circlearrowleft$	\circlearrowleft	$\circlearrowright$	\circlearrowright
$\Lsh$	\Lsh	$\Rsh$	\Rsh
$\upuparrows$	\upuparrows	$\downdownarrows$	\downdownarrows
$\upharpoonleft$	\upharpoonleft	$\upharpoonright$	\upharpoonright
$\downharpoonleft$	\downharpoonleft	$\downharpoonright$	\downharpoonright
$\multimap$	\multimap	$\rightsquigarrow$	\rightsquigarrow
$\leftrightsquigarrow$	\leftrightsquigarrow		
$\nleftarrow$	\nleftarrow	$\nrightarrow$	\nrightarrow
$\nLeftarrow$	\nLeftarrow	$\nRightarrow$	\nRightarrow
$\nleftrightarrow$	\nleftrightarrow	$\nLeftrightarrow$	\nLeftrightarrow

Table 13. Relations (math mode)

$\leq$	`\leq`	$\geq$	`\geq`
$\prec$	`\prec`	$\succ$	`\succ`
$\preceq$	`\preceq`	$\succeq$	`\succeq`
$\ll$	`\ll`	$\gg$	`\gg`
$\subset$	`\subset`	$\supset$	`\supset`
$\subseteq$	`\subseteq`	$\supseteq$	`\supseteq`
$\sqsubset$	`\sqsubset`	$\sqsupset$	`\sqsupset`
$\sqsubseteq$	`\sqsubseteq`	$\sqsupseteq$	`\sqsupseteq`
$\in$	`\in`	$\ni$	`\ni`
$\vdash$	`\vdash`	$\dashv$	`\dashv`
$\smile$	`\smile`	$\mid$	`\mid`
$\frown$	`\frown`	$\parallel$	`\parallel`
$\neq$	`\neq`	$\perp$	`\perp`
$\equiv$	`\equiv`	$\cong$	`\cong`
$\sim$	`\sim`	$\bowtie$	`\bowtie`
$\simeq$	`\simeq`	$\propto$	`\propto`
$\asymp$	`\asymp`	$\models$	`\models`
$\approx$	`\approx`	$\doteq$	`\doteq`
		$\Join$	`\Join`

Table 14. AMS binary relations (math mode)

$\leqq$	`\leqq`	$\geqq$	`\geqq`
$\leqslant$	`\leqslant`	$\geqslant$	`\geqslant`
$\eqslantless$	`\eqslantless`	$\eqslantgtr$	`\eqslantgtr`
$\lesssim$	`\lesssim`	$\gtrsim$	`\gtrsim`
$\lessapprox$	`\lessapprox`	$\gtrapprox$	`\gtrapprox`
$\approxeq$	`\approxeq`	$\eqsim$	`\eqsim`
$\lessdot$	`\lessdot`	$\gtrdot$	`\gtrdot`
$\lll$	`\lll`, `\llless`	$\ggg$	`\ggg`, `\gggtr`
$\lessgtr$	`\lessgtr`	$\gtrless$	`\gtrless`
$\lesseqgtr$	`\lesseqgtr`	$\gtreqless$	`\gtreqless`
$\lesseqqgtr$	`\lesseqqgtr`	$\gtreqqless$	`\gtreqqless`
$\doteqdot$	`\doteqdot`, `\Doteq`	$\eqcirc$	`\eqcirc`
$\risingdotseq$	`\risingdotseq`	$\circeq$	`\circeq`
$\fallingdotseq$	`\fallingdotseq`	$\triangleq$	`\triangleq`
$\backsim$	`\backsim`	$\thicksim$	`\thicksim`
$\backsimeq$	`\backsimeq`	$\thickapprox$	`\thickapprox`
$\subseteqq$	`\subseteqq`	$\supseteqq$	`\supseteqq`
$\Subset$	`\Subset`	$\Supset$	`\Supset`
$\sqsubset$	`\sqsubset`	$\sqsupset$	`\sqsupset`
$\preccurlyeq$	`\preccurlyeq`	$\succcurlyeq$	`\succcurlyeq`
$\curlyeqprec$	`\curlyeqprec`	$\curlyeqsucc$	`\curlyeqsucc`
$\precsim$	`\precsim`	$\succsim$	`\succsim`
$\precapprox$	`\precapprox`	$\succapprox$	`\succapprox`
$\vartriangleleft$	`\vartriangleleft`	$\vartriangleright$	`\vartriangleright`
$\trianglelefteq$	`\trianglelefteq`	$\trianglerighteq$	`\trianglerighteq`
$\vDash$	`\vDash`	$\Vdash$	`\Vdash`
$\Vvdash$	`\Vvdash`		
$\smallsmile$	`\smallsmile`	$\shortmid$	`\shortmid`
$\smallfrown$	`\smallfrown`	$\shortparallel$	`\shortparallel`
$\bumpeq$	`\bumpeq`	$\between$	`\between`
$\Bumpeq$	`\Bumpeq`	$\pitchfork$	`\pitchfork`
$\varpropto$	`\varpropto`	$\backepsilon$	`\backepsilon`
$\blacktriangleleft$	`\blacktriangleleft`	$\blacktriangleright$	`\blacktriangleright`
$\therefore$	`\therefore`	$\because$	`\because`

Table 15. AMS negated relations (math mode)

$\not<$	`\nless`	$\not>$	`\ngtr`
$\not\leq$	`\nleq`	$\not\geq$	`\ngeq`
$\not\leqslant$	`\nleqslant`	$\not\geqslant$	`\ngeqslant`
$\not\leqq$	`\nleqq`	$\not\geqq$	`\ngeqq`
$\lneq$	`\lneq`	$\gneq$	`\gneq`
$\lneqq$	`\lneqq`	$\gneqq$	`\gneqq`
$\lvertneqq$	`\lvertneqq`	$\gvertneqq$	`\gvertneqq`
$\lnsim$	`\lnsim`	$\gnsim$	`\gnsim`
$\lnapprox$	`\lnapprox`	$\gnapprox$	`\gnapprox`
$\not\prec$	`\nprec`	$\not\succ$	`\nsucc`
$\not\preceq$	`\npreceq`	$\not\succeq$	`\nsucceq`
$\precneqq$	`\precneqq`	$\succneqq$	`\succneqq`
$\precnsim$	`\precnsim`	$\succnsim$	`\succnsim`
$\precnapprox$	`\precnapprox`	$\succnapprox$	`\succnapprox`
$\not\sim$	`\nsim`	$\not\cong$	`\ncong`
$\nshortmid$	`\nshortmid`	$\nshortparallel$	`\nshortparallel`
$\nmid$	`\nmid`	$\nparallel$	`\nparallel`
$\nvdash$	`\nvdash`	$\nvDash$	`\nvDash`
$\nVdash$	`\nVdash`	$\nVDash$	`\nVDash`
$\not\triangleleft$	`\ntriangleleft`	$\not\triangleright$	`\ntriangleright`
$\not\trianglelefteq$	`\ntrianglelefteq`	$\not\trianglerighteq$	`\ntrianglerighteq`
$\nsubseteq$	`\nsubseteq`	$\nsupseteq$	`\nsupseteq`
$\nsubseteqq$	`\nsubseteqq`	$\nsupseteqq$	`\nsupseteqq`
$\subsetneq$	`\subsetneq`	$\supsetneq$	`\supsetneq`
$\varsubsetneq$	`\varsubsetneq`	$\varsupsetneq$	`\varsupsetneq`
$\subsetneqq$	`\subsetneqq`	$\supsetneqq$	`\supsetneqq`
$\varsubsetneqq$	`\varsubsetneqq`	$\varsupsetneqq$	`\varsupsetneqq`

Table 16. Variable-sized symbols (math mode)

$\sum$	$\sum$	`\sum`	$\bigcap$	$\bigcap$	`\bigcap`
$\prod$	$\prod$	`\prod`	$\bigcup$	$\bigcup$	`\bigcup`
$\coprod$	$\coprod$	`\coprod`	$\bigsqcup$	$\bigsqcup$	`\bigsqcup`
$\int$	$\int$	`\int`	$\bigvee$	$\bigvee$	`\bigvee`
$\oint$	$\oint$	`\oint`	$\bigwedge$	$\bigwedge$	`\bigwedge`
$\bigodot$	$\bigodot$	`\bigodot`	$\bigotimes$	$\bigotimes$	`\bigotimes`
$\bigoplus$	$\bigoplus$	`\bigoplus`	$\biguplus$	$\biguplus$	`\biguplus`

Table 17. Delimiters (math mode)

(	(	)	)
[	[	]	]
{	\{	}	\}
⌊	\lfloor	⌋	\rfloor
⌈	\lceil	⌉	\rceil
⟨	\langle	⟩	\rangle
/	/	\	\backslash
|	\vert	‖	\Vert
↑	\uparrow	⇑	\Uparrow
↓	\downarrow	⇓	\Downarrow
↕	\updownarrow	⇕	\Updownarrow
⌜	\ulcorner	⌝	\urcorner
⌞	\llcorner	⌟	\lrcorner

Table 18. Function names (math mode)

\arccos	\csc	\ker	\min
\arcsin	\deg	\lg	\Pr
\arctan	\det	\lim	\sec
\arg	\dim	\liminf	\sin
\cos	\exp	\limsup	\sinh
\cosh	\gcd	\ln	\sup
\cot	\hom	\log	\tan
\coth	\inf	\max	\tanh