${\bf Table~1.~Additional~AAST}_{\!E\!X}~{\rm symbols}$

_	\]\	>	\\
\lesssim	$\label{lesssim} \$	\gtrsim	\gtrsim, \ga
$\mu\mathrm{m}$	\micron	_	\sbond
=	\dbond	=	\tbond
\odot	\sun	\oplus	\earth
\bigcirc	\diameter		
0	\arcdeg, \degr		\sq
′	\arcmin	′′	\arcsec
d	\fd	h •	\fh
$_{\boldsymbol{\cdot}}^{m}$	\fm	s •	\fs
•	\fdg	.'	\farcm
<i>"</i>	\farcs	p •	\fp
$\frac{1}{2}$	\onehalf	UBVR	\ubvr
$\frac{1}{3}$	\onethird	$U\!-\!B$	\ub
$\frac{2}{3}$	\twothirds	$B\!-\!V$	\bv
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{1}{4}$ $\frac{3}{4}$	\onequarter	$V\!-\!R$	\vr
$\frac{3}{4}$	\t	$U\!-\!R$	\ur

Table 2. Text-mode accents

		ò \'{o}	ō \={o}	oo	\t{oo}
		ó ∖'{o}	ċ \.{ο}	Q	\c{o}
@	\mathbf{c}	ô \^{o}	ŏ \u{o}	ò	\d{o}
		ö \"{o}	ŏ \v{o}	ō	\b{o}
		ο /~{ο}	ű /ዘ{o}		

Table 3. National symbols

		œ	\oe	\mathbf{a}	\aa	İ	/1
@	c	Œ	\0E	Å	\AA	Ł	\L
<u> </u>	C	æ	\ae	Ø	\0	ß	\ss
		Æ	\AE	Ø	\0		

Table 4. Math-mode accents

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

Table 5. Greek and Hebrew letters (math mode)

α	\alpha	ν	\nu
β	\beta	ξ	\xi
γ	\gamma	0	0
δ	\delta	π	\pi
ϵ	\epsilon	ho	\rho
ζ	\zeta	σ	\sigma
η	\eta	au	\tau
θ	\theta	v	υ
ι	\iota	ϕ	\phi
κ	\kappa	χ	\chi
λ	\lambda	ψ	\psi
μ	\mu	ω	\omega
F	\digamma	\varkappa	\varkappa
ε	$\vert varepsilon$	ς	\varsigma
ϑ	$\$ vartheta	φ	\varphi
ϱ	\varrho		
Γ	\Gamma	Σ	\Sigma
Δ	\Delta	Υ	Υ
Θ	\Theta	Φ	\Phi
Λ	\Lambda	Ψ	\Psi
Ξ	\Xi	Ω	\Omega
Π	\Pi		
×	\aleph	コ	\beth
I	\gimel	٦	\d

Table 6. Binary operators (math mode)

\pm	\pm	\cap	\cap
\mp	\mp	\cup	\cup
\	\setminus	\boxplus	\uplus
	\cdot	П	\sqcap
×	\times	\sqcup	\sqcup
*	\ast	⊲	\triangleleft
*	\star	\triangleright	\triangleright
\Diamond	\diamond	?	\wr
0	\circ	\bigcirc	\bigcirc
•	\bullet	\triangle	$\$ bigtriangleup
÷	\div	∇	$\$ bigtriangledown
\triangleleft	\lhd	\triangleright	\rhd
\vee	\vee	\odot	\odot
\wedge	\wedge	†	\dagger
\oplus	\oplus	‡	\ddagger
\ominus	\ominus	П	\amalg
\otimes	\otimes	\leq	\unlhd
\oslash	\oslash	\trianglerighteq	\unrhd

Table 7. AMS binary operators (math mode)

$\dot{+}$	\dotplus		\ltimes
\	\smallsetminus		\rtimes
$ \ \ \bigcap$	\Cap, \doublecap	\rightarrow	\leftthreetimes
U	\Cup, \doublecup		\rightthreetimes
$\overline{\wedge}$	\barwedge	人	\curlywedge
$\underline{\vee}$	\veebar	Υ	\curlyvee
$\bar{\wedge}$	\doublebarwedge		
\Box	\boxminus	\ominus	\circleddash
\boxtimes	\boxtimes	*	\circledast
$\overline{}$	\boxdot	0	\circledcirc
\blacksquare	\boxplus		\centerdot
*	\divideontimes	Т	\intercal

 Table 8. Miscellaneous symbols

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

 ${\bf Table~9.~Miscellaneous~symbols~(math~mode)}$

×	\aleph	1	\prime
\hbar	\hbar	Ø	\emptyset
\imath	$\$ imath	∇	\nabla
J	$\$ jmath		\surd
ℓ	\ell	Т	\top
Ø	\wp	\perp	\bot
\Re	\Re		\I
\Im	\Im	_	\angle
∂	\partial	\triangle	\triangle
∞	∞	\	\backslash
	\Box	\Diamond	\Diamond
\forall	\forall	#	\sharp
\exists	\exists	*	\clubsuit
\neg	\neg	\Diamond	\diamondsuit
þ	\flat	\Diamond	\heartsuit
Ц	\natural	^	\spadesuit
Ω	\mho		

Table 10. AMS miscellaneous symbols (math mode)

 \hbar \hbar \backprime \hbar \hslash Ø \varnothing Δ \vartriangle \blacktriangle \blacktriangle ∇ \triangledown \blacktriangledown □ \square \blacksquare \Diamond \lozenge **♦** \blacklozenge \odot \circledS \star \bigstar \sphericalangle _ \angle \measuredangle 4 С ∄ \nexists \complement Ω ð \mbox{mho} \eth Ь $\$ Finv \diagup G \Game \diagdown \restriction \mathbb{k} \Bbbk

Table 11. Arrows (math mode)

 \leftarrow \longleftarrow ← \Leftarrow $\longleftarrow \texttt{\label{longleftarrow}}$ ightarrow $\longrightarrow \texttt{\longrightarrow}$ ⇒ \Rightarrow $\Longrightarrow \setminus Longrightarrow$ $\leftrightarrow \texttt{\leftrightarrow}$ $\longleftrightarrow \label{longleftrightarrow}$ ⇔ \Leftrightarrow $\iff \texttt{\longleftrightarrow}$ $\mapsto \setminus \mathtt{mapsto}$ $\longmapsto \label{longmapsto}$ $\leftarrow \verb|\hookleftarrow|$ $\hookrightarrow \verb|\hookrightarrow||$ ← \leftharpoonup → \rightharpoonup → \rightharpoondown \Rightarrow \rightleftharpoons \rightsquigarrow \leadsto \$\tag{Updownarrow}\$ ↑ \uparrow ↑ \Uparrow / \nearrow ↓ \downarrow √ \searrow √ \swarrow ↓ \Downarrow

Table 12. AMS arrows (math mode)

←-- \dashleftarrow --→ \dashrightarrow \leftleftarrows ⇒ \rightrightarrows \leftrightarrows \leftrightarrows \rightleftarrows \rightleftarrows \Leftarrow \Lleftarrow \Rightarrow \Rrightarrow \twoheadleftarrow → \twoheadrightarrow \leftarrowtail \rightarrowtail ← \looparrowleft ≒ \leftrightharpoons ⇒ \rightleftharpoons \circlearrowleft \circlearrowright ↰ \Lsh \Rsh Ļ \coprod \downdownarrows ↑ \upuparrows \upharpoonleft \upharpoonright \downharpoonleft \downharpoonright → \multimap \rightsquigarrow \leftrightsquigarrow \nleftarrow → \nrightarrow \nLeftarrow \nRightarrow ⟨⇒ \nLeftrightarrow ↔ \nleftrightarrow

Table 13. Relations (math mode)

\leq \geq \prec \succ \prec \succ \succeq \succeq \preceq ≪ \11 \gg \gg \subset \subset \supset \supset \subseteq \subseteq \supseteq \supseteq \sqsubset \sqsubseteq \sqsubseteq \supseteq \sqsupseteq \in \in \ni \ni \vdash \dashv \smile \mbox{mid} \frown \parallel \neq \neq \perp \perp \cong \equiv \cong \equiv \sim \bowtie \bowtie \simeq \propto \simeq \propto \asymp \models \asymp \models \doteq \approx \Join

Table 14. AMS binary relations (math mode)

\leq	\leqq	\geq	\geqq
\leq	\leqslant	\geqslant	\geqslant
<	\eqslantless	\geqslant	\eqslantgtr
\lesssim	\lesssim	\gtrsim	\gtrsim
≲	\lessapprox	≳	\gtrapprox
\approx	\approxeq	\equiv	\eqsim
⋖	\lessdot	⋗	\gtrdot
~	$\111, \11less$	>>>	\ggg, \gggtr
\leq	\lessgtr	\geq	\gtrless
\leq	\lesseqgtr	\geq	\gtreqless
VIIAVIA	\lesseqqgtr	W VINVIIN	\gtreqqless
	\doteqdot, \Doteq	<u> </u>	\eqcirc
≓	\risingdotseq	$\stackrel{\circ}{=}$	\circeq
≒.	\fallingdotseq	\triangleq	\triangleq
\sim	\backsim	~	\thicksim
\simeq	\backsimeq	\approx	\thickapprox
\subseteq	\subseteqq	\supseteq	\supseteqq
⋐	\Subset	∋	\Supset
	\sqsubset	\Box	\sqsupset
\preccurlyeq	\preccurlyeq	\succcurlyeq	\succcurlyeq
\Rightarrow	\curlyeqprec	\succ	\curlyeqsucc
$\stackrel{\sim}{\sim}$	\precsim	\succeq	\succsim
\approx	\precapprox	X	\succapprox
\triangleleft	\vartriangleleft	\triangleright	\vartriangleright
\leq	\trianglelefteq	\trianglerighteq	\trianglerighteq
F	\vDash	\Vdash	\Vdash
\Vdash	\Vvdash		
\smile	\smallsmile	I	\shortmid
$\overline{}$	\smallfrown	П	\shortparallel
<u>~</u>	\bumpeq	Ŏ	\between
≎	\Bumpeq	ф	\pitchfork
\propto	\varpropto	Э	\backepsilon
•	\blacktriangleleft	•	\blacktriangleright

∵ \because

.. \therefore

Table 15. AMS negated relations (math mode)

\swarrow	\nless	\nearrow	\ngtr
≰	\nleq	≱	\ngeq
≰	\nleqslant	$\not\geq$	\ngeqslant
≰	\nleqq	≱	\ngeqq
≤	\lneq	\geq	\gneq
≨	\lneqq	\geqq	\gneqq
≨	\lvertneqq	≩	\gvertneqq
\lesssim	\lnsim	/ ∻ /#	\gnsim
≨	\lnapprox	⋧	\gnapprox
$ \neq$	\nprec	$\not\succ$	\nsucc
\npreceq	\npreceq	$\not\succeq$	\nsucceq
$\not\equiv$	\precneqq	$\not\succeq$	\succneqq
$\stackrel{\scriptstyle \sim}{\sim}$	\precnsim	≻ ∻	\succnsim
≨	\precnapprox	∠ ≋	\succnapprox
~	\nsim	\ncong	\ncong
∤	\nshortmid	Ħ	\nshortparallel
1	\nmid	#	\nparallel
$\not\vdash$	\nvdash	¥	\nvDash
\mathbb{H}	\nVdash	⊭	\nVDash
	\ntriangleleft	$\not\trianglerighteq$	\n
⊉	\ntrianglelefteq	⊭	\n
$\not\sqsubseteq$	\nsubseteq	$\not\supseteq$	\nsupseteq
$\not\sqsubseteq$	\nsubseteqq	⊉	\nsupseteqq
\subsetneq	\subsetneq	\supseteq	\supsetneq
⊊	\varsubsetneq	⊋	\varsupsetneq
\subseteq	\subsetneqq	\supseteq	\supsetneqq
≨	\varsubsetneqq	\supseteq	\varsupsetneqq

Table 16. Variable-sized symbols (math mode)

\sum	\sum	\sum	\cap	\bigcap	\bigcap
Π	\prod	\prod	U	\bigcup	\bigcup
П	Ţ	\coprod	\sqcup		\bigsqcup
ſ	\int	\int	V	\vee	\bigvee
∮	\oint	\oint	\land	\land	\bigwedge
\odot	\odot	\bigodot	\otimes	\otimes	\bigotimes
\oplus	\oplus	\bigoplus	\forall	\forall	\biguplus

Table 17. Delimiters (math mode)

,	,	`	
(())
[[]]
{	\{	}	\}
Ĺ	\lfloor		\rfloor
Γ	\lceil	7	\rceil
<	\langle	\rangle	\rangle
/	/	\	\backslash
	\vert		\Vert
\uparrow	\uparrow	\uparrow	\Uparrow
\downarrow	\downarrow	\Downarrow	\Downarrow
\$	\updownarrow	\$	\Updownarrow
Γ	\ulcorner	٦	\urcorner
L	\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	\label{limsup}	\sinh
\cosh	\gcd	\ln	\sup
\cot	\hom	\log	an
\coth	\inf	\max	\tanh