Contents

{["1"]} {["0","i"]}

1 Interpretation

	N
0	{i,1}
i	{0,1}
1	{0,i}

$\wedge$	0	i	1
0	{0}	{i}	{i}
i	{i}	{i}	{i}
1	{i}	{i}	{1}

$\vee$	0	i	1
0	{0}	{i}	{1}
i	{i}	{i}	{1}
1	{1}	{1}	{1}

	$\neg$
0	{1}
i	{i}
1	{0}

2 Schemas of Σ_N

Size: 3

r1

$$\frac{N\varphi,\ \varphi}{}$$

r2

$$\frac{}{N\varphi,\ \neg N\varphi,\ \neg\varphi,\ \varphi}$$

r3

$$\frac{\neg N\varphi,\ \neg\varphi}{N\varphi,\ \varphi}$$

3 Schemas of Σ_{and}

Size: 8

r4

$$\frac{\neg((\varphi \wedge \psi)),\ \varphi}{\varphi \wedge \psi}$$

r5

$$\frac{\neg((\varphi \wedge \psi)),\ \psi}{\varphi \wedge \psi}$$

r6

$$\frac{\varphi,\ \psi}{\varphi \wedge \psi}$$

r7

$$\frac{\neg\varphi,\ \neg\psi}{\varphi \wedge \psi,\ \neg((\varphi \wedge \psi)),\ \varphi,\ \psi}$$

r8

$$\frac{\neg((\varphi \wedge \psi))}{\varphi \wedge \psi,\ \neg\varphi,\ \varphi}$$

r9

$$\frac{\neg((\varphi \wedge \psi))}{\varphi \wedge \psi,\ \neg\psi,\ \psi}$$

r10

$$\frac{\varphi \wedge \psi}{\varphi}$$

r11

$$\frac{\varphi \wedge \psi}{\psi}$$

4 Schemas of Σ_{neg}

Size: 3

r12

$$\frac{\neg\varphi,\ \varphi}{}$$

r13

$$\frac{\varphi}{\neg\neg\varphi,\ \neg\varphi}$$

r14

$$\frac{\neg\neg\varphi}{\neg\varphi,\ \varphi}$$

5 Schemas of Σ_{or}

Size: 6

r15

$$\frac{\neg\varphi,\ \neg\psi}{\neg((\varphi \vee \psi)),\ \varphi \vee \psi,\ \varphi,\ \psi}$$

r16

$$\frac{\neg((\varphi \vee \psi))}{\neg\varphi,\ \varphi \vee \psi,\ \varphi}$$

r17

$$\frac{\neg((\varphi \vee \psi))}{\neg\psi,\ \varphi \vee \psi,\ \psi}$$

r18

$$\frac{\varphi}{\varphi \vee \psi}$$

r19

$$\frac{\psi}{\varphi \vee \psi}$$

r20

$$\frac{\varphi \vee \psi}{\varphi,\ \psi}$$