INHALTS	SVERZEI	CHNIS
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are examined (oncology, phonetics, enology, and psychology) where there is evidence that observational language is not used consensually by practicioners in the field, even though they share the same theory and use the same vocabulary. Enology and psychology are developing sciences, so that agreement on what vocabulary is appropriate is still being developed. The precise use of observational expressions must be carefully taught and supervised. Linguistic consensus and reliability cannot be assumed.

William H. NEWTON-SMITH: On the Rational Explanation of the Scientific Chance

On a rational model of science (cf. Lakatos or Laudan), to decide on the appropriate type of explanation of a given scientific change requires a normative assessment made by reference to the model. Showing that a transition fits the model, displays it to be rational and thereby explains it. On the strong programme in the sociology of scientific knowledge (cf. Bloor and Barnes), normative assessment is irrelevant to explanation. All changes require the same type of explanation (the symmetry thesis); namely, a sociological one. The symmetry thesis is false. Scientific change can be explained rationally but without extensive normative assessment using the minimal rationality model (minirat). However, explaining scientific progress as opposed to mere change, requires a maximal rationality model (maxirat) which involves normative assessment.

Kuno LORENZ: About Limits of Growth for Scientific Theories....

If self-determination shall apply as a norm also to scientific research and presentation, there are beside empirical limitations regarding data production, also conceptual limitations to data processing, because nobody can rely on knowledge by first-hand authority only. A transfer-condition (knowledge by n-th hand authority should "in principle" be available by first-hand authority) in order to save scientific rationality is shown to be equivalent with following "open" discourses, i.e. argumentations which combine competition and cooperation through developing the means to overcome their imperfections due to the empirical differences of the arguing persons.

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factory than the expected-utility model. The role of intuitive
judgement in the context of actual decision making is stressed. The
fundamental place of intuitive judgement in science, especially
in the performance of experiments and the analysis and presenta-
tion of results is analyzed. Errors of measurement naturally arise in
application of the expected-utility model, but there is a long histo-
ry of theory and practice for dealing with such errors. The existen-
ce of such errors constitutes a limitation, not a prohibition, on the
use of expected-utility theory as a fundamental framework for
rational behaviour.

This note is a comment on Suppes's essay on the limits of rationality. The substantial point is that if a theory of rationality is conceived as a structure plus scope, then, contra Suppes, intuitive judgement is part of the theory of rationality because it is part of the scope of that theory. The point is supported by analogy with a learning theory. Finally, intuitive judgement and informal knowledge is suggested to be evidence of the irreducible vagueness of theory as opposed to irreducible limits on theory.	103
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ed. Hume's argument against higher probabilities is critically evaluated. Conflicting probability assignments for a hypothetis or theory may result from the application of different methods or perspectives, for example, those of consensual authority and individual ratiocination. When we have conflicting probabilities we may assign probabilities to the diverse probabilities initially obtained. These second level probabilities may also conflict as a result of applying diverse methods or perspectives, and the same is true of higher order probabilities. However, when higher order probabilities are normalized to obtain weights that are used to average the probabilities of the next lower level, the averaging process will yield convergence towards a single first order probability condensing higher order information. An infinite averaging process can be finitely calculated to obtain a coherent assignment. Hence there is no vicious regress of probabilities. Memory beliefs illustrate the convergence of an infinite hierarchy.

Paul WEINGARTNER: A System of Rational Belief, Knowledge and Assumption....

The first part of the papaer contains desiderata for a realistic epistemic system as opposed to idealistic ones. One of the main characteristics of idealistic epistemic systems is their deductive infallibility or deductive omniscience. The system presented avoids deductive infallibility though having a strong concept of knowledge. The second part contains the theorems of the system. The system is detailed in so far as it distinguishes between two concepts of belief and one of assumption and interrelates them to the concept of knowledge. Though all concepts satisfy certain consistency criteria the strongest ones hold for the concept of knowledge; whereas a belief in or a assumption (assertion) of a proposition which has inconsistent consequences (not known or believed or assumed by the believer or assumer) does not entail the commitment of believing in (or assuming of) an explicit contradiction. Moreover the system contains a lot of distinctions and details concerning propositions with a second person involved like "a knows that b knows whether p is the case" etc. The third part of the paper contains the semantics of the system which consists of many-valued truth-tables. Since the matrices are finite the sys-

Lorenz KRÜGER: Unity of Science and Cultural Pluralism.........

Modern science and technology tend to create one global civilization. To what extent and how can cultural pluralism be preserved

tem is consistent and decidable.

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under these conditions? Neither inherent limitations of natural science and technology nor alternative lines of developing them offer a promising road for pluralism. But it is to be expected that the unifying trend will not carry over into the realm of the human and social sciences; these are rather to be construed as "locally dispersed", i.e. uncapable of being developed into a unified theory of human nature, whereas natural science refers to a unified picture of non-human nature. Thus, modest hopes for preserving pluralism seem to be justified.

Myles BRAND: A Particularist Theory of Events...... Events are unstructured particulars and their identity conditions are to be stated in terms of necessary spatiotemporal coincidence.

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In contrast, Davidson says that events are unstructured particulars, with their identity conditions to be given in terms of sameness of causes and effects; and Kim says that events are structured particulars, with their identity conditions to be given in terms of sameness of their constituents. The consequences of my view are then traced for mental events.

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In both theoretical and applied contexts the concept of autonomy has assumed increasing importance in recent normative philosophical discussion. Given various problems to be clarified or resolved the author characterizes the concept by first setting out conditions of adequacy. The author then links the notion of autonomy to the identification and critical reflection of an agent upon his first-order motivations. It is only when a person identifies with the influences that motivate him, assimilates them to himself, that he is autonomous. In addition this process of identification must itself meet certain procedural constraints.

Lars BERGSTRÖM: Outline for an Argument for Moral Realism.... Moral realism is defined here as the ontological view that there are moral facts. This is compared with traditional views in moral philosophy, such as naturalism, nonnaturalism, and noncognitivism. It is argued that we have no good reasons to avoid inconsistencies among our moral views unless (we believe that) moral realism is true. Various counter-arguments to this claim are criticized. Moreover, it is argued that since we do not went to give up

cized. Moreover, it is argued that, since we do not want to give up the practice of moral reasoning, we have a good reason to believe that moral realism is true.

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Ivan SUPEK: Foundation of Justice. From its start philosophy sought principles or values by which any action could be considered good or evil. The situation in a civil court is much simpler. The judge has before him an already worked-out criminal code, and since an evil action has already been settled, it is easy to determine the appropriate punishment. But we are here not interested in the punishment nor can we assume in advance the existence of some sort of book of laws. We are rather concerned with discovering the principles by which we can judge others and establish appropriate laws. In all this, moreover, there are subtle and gross differences between men, but for moral behaviour it is essential that human freedom and universality remain preserved in every good purpose whether that be security, reform, improvement, or the enrichment of life.	251
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Freedom of scientific enquiry must be distinguished from freedom to communicate scientific results. The former demands freedom for scientists to communicate among one another, without which progress is hampered, but not, in itself, freedom to communicate conclusions to the public. The latter freedom may be taken as resting on a general principle of free speech, or, more specifically, on the right of all members of society to knowledge gained by that society, especially by means of public expenditure: it is not to be viewed as resting on the superior rationality of scientists as individuals. More important than knowledge are the social and practical consequences of scientific research, of which the most striking example is that of nuclear weapons; we may assume that the net practical effects of research will be, perhaps increasingly, disastrous. The social consequence, and the liability of scientists to prejudice, may both be illustrated by work on IQ and its genetic determination. Adequate safeguards are impossible; but some discouragement of what seems likely to be socially or practically malign lines of research may be exercised by relatively autonomous bodies in control of State funding.